АСТРОНОМСКА ОПСЕРВАТОРИЈА
са потпуном одговорношћу
Број 33/1
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БЕОГРАД - Волгина 7

НАУЧНОМ ВЕЋУ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ БЕОГРАД

Научно веће Астронмске опсерваторије, на петој седници од 18. 12. 2024. године, именовало нас је за чланове Комисије чији је задатак да утврди да ли кандидат др Еди Бон испуњава услове за РЕИЗБОР у звање ВИШИ НАУЧНИ САРАДНИК. После прегледа и анализе достављеног материјала подносимо следећи

# РЕФЕРАТ

## Биографски подаци о кандидату

Др Еди Бон је рођен 28.09.1970. године у Београду, где је завршио основну и средњу школу.

Дипломирао је на Катедри за астрономију Математичког факултета Универзитета у Београду почетком 1997. године.

Након привременог рада у Шестој београдској гимназији, где је радио као професор физике и астрономије, од априла 1998. године се запошљава на Астрономској опсерваторији у Београду.

Магистарски рад ”Структура емисионе области код активне галаксије III Zw 2”, под менторством др Луке Ч. Поповића, је одбранио на Катедри за астрономију Математичког факултета Универзитета у Београду 2001. године, из које је проистекло шест радова, од којих један у категорији М21.

Докторску дисертацију под називом ”Прикривена емисија акреционог диска у широколинијској области активних галаксија“ одбранио је 17. марта 2010. године на Катедри за астрономију Математичког факултета Универзитета у Београду, такође под менторством др Луке Ч. Поповића, из које је проистекло 15 објављенеих научних јединица, од којих 5 са ИСИ листе у М20 категоријама: три у М21, један у М22 и два рада у М23 категорији.

На Астрономској опсерваторији се бави истраживањем активних галактичких језгара, зрачењем околина супермасивних црних рупа и акреционих дискова, променљивошћу спектара ових објеката, као и орбитама двојних супермасивних црних рупа. До сада је објавио преко 90 научних јединица, од чега 62 рада у реферисаним међународним часописима, односно 37 у М20 категоријама. У звање Виши научни сарадник изабран је 8. 7. 2020. Тренутно, на Астрономској опсерваторији ради у оквиру у групе за гравитацију и космологију.

Решењем председника Владе Републике Србије од 25. 10. 2014. године именован је за члана Управног одбора Астрономске опсерваторије у Београду, где је провео један мандат.

Члан је Међународне астрономске уније, Европског астрономског друштва, Евроазијског друштва астронома и Друштва астронома Србије. Едитор је међународног часописа “Frontiers Astronomy and Space Sciences Editorial Office”, категорије М22.

Био је представник је Србије у менаџмент комитету COST akcije CA16104 „Gravitational waves, black holes and fundamental physics“, у оквиру које је управљао радном групом WG1: “Super massive binary black hole observational signatures” (WG1).

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# Преглед научне активности кандидата

Кандидат се у току досадашњег рада бавио спектроскопским истраживањем активних галактичких језгара, и структуре емисионих области у околинама супермасивних црних рупа, уз посебан фокус на веома дуге посматрачке кампање, од више десетина година, као и специфичне обраде спектара како би се спектри и посматрачки материјали са потпуно различитих телескопа и инструмената калибрисали на тај начин да могу бити употребљени заједно у овако дугим посматрачким серијама. За овакве потребе, развио је више програмских алата и допринео унапређењу метода које су коришћене у овим истраживањима, која су резултовала открићем прве спектроскопски двојне супермасивне црне рупе (линк). Сада ради на истраживањима секуларних варијабилности активних галаксија и могућим периодичним променама зрачења у потрази за кандидатима двојних супермасивних система.

Учествовао је у радовима који објашњавају настајање феномена активних галаксија са екстремном варијабилношћу тзв. “промењивим изгледом” (changing look – CL AGN) Sniegowska et al. *ApJ* (2020), (линк) са прко 113 навођења, односно 95 без аутоцитата и Wang and Bon *A&A* (2020), (линк), цитиран преко 31 пут без аутоцитата, односно 38 укупно. Веома дуг мониторинг једног оваквог објеката је анализиран у раду (линк), који је у року од свега две године цитиран преко 25 пута.

У релтивно новој, недавно покренутој дисциплини “Квазари у Космологији” има више радова о екстремним акреторима који могу да се користе као стандардне свеће у Космологији. Организовао симпозијум (као члан научног комитета) са овим насловом теме, у оквиру међународне европске конференције у Лиону у Француској (The European Week of Astronomy and Space Science (EWASS), Lyon, France, 24 to 28 June 2019, symposium S2, Quasars in cosmology ).

Бавио се проучавањем емисије око супермасивних црних рупа у центрима активних галаксија, као и проблемима променљивости емисије акреционих дискова, како у кривама сјаја тако и у спектрима посматраним у овим објектима. У оквиру ових истраживања је дошао до открића првог спектроскопски двојног система супермасивних црних рупа, што је објављено крајем 2012. године у међународном часопису изузетних вредности ApJ (у

категорији М21а, видети у прилогу референцу, *Bon et al. ApJ. 2012, (линк)*), који је до сада цитиран чак 149 пута, а без аутоцитата преко 77 пута. Ова истраживања је касније настављевио и водио је, или учествовао је у проналсцима више оваквих објеката, од чега је један рад објављен у међународном часопису изузетних вредности М21а, *Astrophysical Journal Supplement Series* (са импакт фактором преко 14, *Bon et al, ApJS, 2016, (линк)*, видети у прилогу, са 61 цитататом без аутоцитата, од укупно преко 108 цитата). Након тога је радио на изучавању кандидата за систем двојних црних рупа у галаксији Ark120, (линк), и тај рад је цитиран прко 54 пута). Оваква истраживања су нова област и у свету и код нас, и отварају сасвим нове погледе у изучавању механизама који производе енергије, ових објеката који су најсјајнији у Космосу.

До сада је био секретар на више међународних конференција. Такође, учествовао је у више научних комитета на међународним и домаћим конференцијама.

Учествовао је на више међународних пројеката (VAMDC, SEEGREED, Павле Савић, COST – Black Holes, COST-CA16104 „Gravitational waves, black holes and fundamental physics“).

# Елементи  за квалитативну анализу рада кандидата

## 1. Квалитет научних резултата

### 1.1 Значај научних резултата

У периоду након одлуке Научног већа о предлогу за покретање претходног научног звања виши научни сарадник, кандидат има рад објављен у међународним часописима изузетних вредности (М21а), пет радова у врхунским међународним часописима (М21), три рада у истакнутом међународном часопису (М22), четири рада у међународним часописима категорије М23. Члан је уређивачког одбора истакнутог међународног часописа (М22 категорије) протеклих пет година, и има два гостујућа уредништва у часописима М22 и М23. Имао је пет предавања по позиву и седам саопштења на међународним скуповима. У овом периоду је организовао међународну конференцију (као ко-чер конференције) у оквиру које је био едитор зборника апстраката, као и тематског зборника радова.

### 1.2 Параметри квалитета часописа

Током научне каријере објавио је 91 рад од чега 61 рад у реферисаним међународним часописима са ИСИ листе,  односно, 41 u М20 категоријама: 3 u М21а, 14 u М21, 8 u М22 и 16 радова у категорији М23.

Након избора у претходно звање објавио је укупно 36 библиографских јединице укупне вредности 112 бодова (нормирано 91.44), односно у М20-обавезним 2 категоријама 80 поена, (са нормирањем на број коаутора 60.48), што значајно превазилази број поена потребних за реизбор у звање виши научни сарадник. Од ових радова у часописима са ИСИ листе, категорија М21а, М21, М22 и М23: рад у врхунским часописима међународног значаја

(M21a), 5 радова у водећим часописима међународног значаја (M21), 3 рада у истакнутим часописима међународног значаја (M22) и 5 радова у часописима међународног значаја (M23).

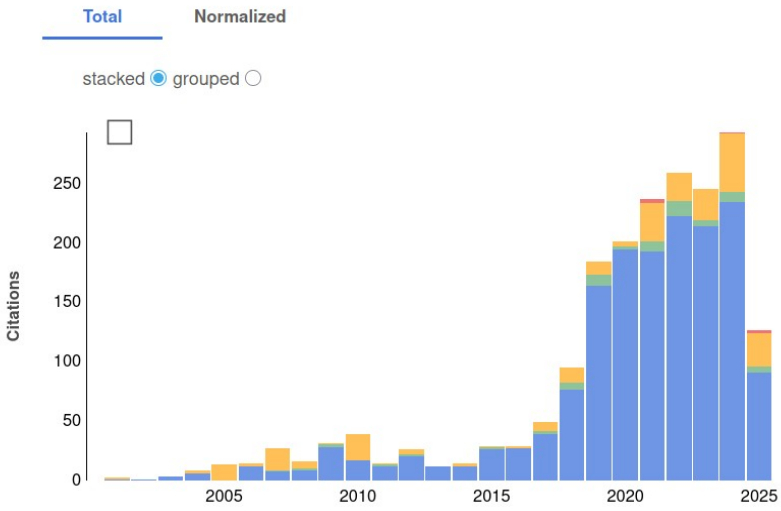
Од претходног избора у звање, др Еди Бон на међународним скуповима има 4 предавања по позиву штампана у изводу (M32), 4 саопштења категорије M33 (штампана у целини), 4 саопштења категорије M34 штампана у изводу, 1 рад у M53 категорији.

## 1.3. Подаци о цитираности

Утицајност научних резултата се исказује кроз цитираност и Хиршов индекс. По анализи на интернет страници Google Scholar др Еди Бон има **Хиршов индекс 22,** односно по базама **Scopus** и NASA ADS **h=19**[1]**. Хиршов индекс без аутоцитата је 17** (видети у прилогу списак свих референци са навођењем цитатата без аутоцитата).

| | Google scholar | Scopus | NASA ADS |
|---|---|---|---|
| Цитата | **> 2300** | **> 1700** | **> 1970** |
| Цитата без аутоцитата | **> 1400** | **> 1200** | **> 1300** |
| h-index | **22** | **19** | **19** |

| | Totals | Refereed |
|---|---|---|
| Number of citing papers | 1389 | 1371 |
| Total citations | 1967 | 1890 |
| Number of self-citations | 232 | 207 |
| Average citations | 21.2 | 30.5 |
| Median citations | 3 | 7.5 |
| Normalized citations | 224.0 | 211.5 |
| Refereed citations | 1689 | 1619 |
| Average refereed citations | 18.2 | 26.1 |
| Median refereed citations | 3 | 7 |
| Normalized refereed citations | 188.6 | 177.0 |




## 1.4. Награде

Добитник годишње награде за научни рад младих Астрономске опсерваторије **2006.** године. Добитник годишње награде за научни рад Астрономске опсерваторије **2025.**

1 Разлика у Хиршовом индексу у различитим базама је резултирала делом због ограничења Scopus-а да индексира радове пре 2004-те године, а делом због промене имеил домена Астрономске опсерваторије, па је адреса кандидата била мењана више пута у истој институцији: ebon@aob.bg.ac.yu, ebon@aob.bg.ac.rs, и ebon@aob.rs. Ово је резултовало са више аутоматски направљених налога кандидата на Scopus, WOS сервисима који нису обједињени и тиме су умањили број цитата.

## 1.5. Међународна сарадња

До сада је имао неколико студијских боравака и учешћа на међународним пројектима (VAMDC, SEEGREED, Pavle Savić, COST action – “Black Holes”, COST action – “Gravitational waves, black holes and fundamental physics“).

Посебан значај има учешће у међународном пројекту COST Action CA16104 „Gravitational waves, black holes and fundamental physics“, где је кандидат представник Србије у комитету овог пројекта, као и вођа међународног пројектног задатка истрживања двојних супермасивних црних рупа и гравитационих таласа, у оквиру радне групе WG1: “Super massive binary black hole observational signatures”.

У оквиру сарадње са колегама из INAF института у Падови (Paola Marziani (h=43) i Giovani La Mura) имао је студијске боравке је на институту INAF у Падови, као и на опервaторији Асиаго. У квиру ове сарадње објављено је 9 радова у М20 међународним часописима[2], од којих су неки цитирани преко 100 пута.

У оквиру сарадње са Русијом, посебно се издваја сарадња са Алом Шаповаловом, са Специјалне Астрофизичке Опсерваторије (САО), са којом кандидат има објављена два рада у врхунским међународним часописима (оба цитирана преко 100 пута, видети прилог).

Недавно су започете сарадње са колегама из Израела: Hagai Netzer (h=114), Shay Zucker (h=68), Department of Geosciences, Tel-Aviv University, Israel ), Немачке (Stefanie Komossa (h=62), Max-Planck-Institut für Radioastronomie, Bonn, Germany), САД [Martin Gaskell (h=48) и Jack Sulentic (h=52)], Пољске [Bozena Czaerny (h=54)[3], M. Sniegowska, Swayamtrupta Panda (h=23)] и Кине [Jian-Min Wang (h>80), Pu Du (h=32), Yan-Rong Li (h>30)…], који су сви изузетно значајни научници у овој области, а неки од њих представљају најпознатија и најзначајнија имена из области активних галаксија. Са овим научницима, за сада, кандидат има бар по један рад објављен рад у часописисима М21а или М21 категорије.

У оквиру међународне сарадње са групом из Шпаније, са Института на Канарским острвима IAC (на челу са Евенсиом Медиавиљом h=37), боравио је два пута по месец дана, на институту на Тенерифима, као и опсерваторији Исак Њутн на острву Ла Палма, где је реализовао посматрачке активности на 2.5m телескопу и обрадио посматрања. Ови резултати су објављени у 6 радова категорије М20[4], од којих је један цитиран чак преко 100 пута, што потврђује успешност ове сарадње.

**<u>Студијски боравци:</u>**

- У фебруару 2012. боравио 7 дана на INAF институту у Падови у Италији, где је у оквиру боравка одржао и семинар на тему варијабилности код активних галаксија.
- У јуну 2010. боравио 7 дана на Асиаго опсерваторији и INAF институту у Падови у Италији.
- у оквиру програма билатералне сарадње са Француском под називом Павле Савић боравио је на опсерваторији у Лиону у Француској (L’Observatoire de Lyon) у периодима 14.05 – 1.07.2007 и 25.11-2.12.2008,

2 Као што су *Astrophysical Journal, Astrophysical Journal Suplement Series, Monthly Notice Royal Astronomical Society, New Astronomy Review, Atoms, Universe, ASR,...*

3 Један од радова је цитиран преко 100 пута.

4 Као што су *Astrophysical Journal, Monthly Notice Royal Astronomical Society, Astronomy & Astrophysics, New Astronomy Review, Astronomiche Nachrihten).*

- на основу посматрачког предлога др Луке Ч. Поповића и Едија Бона, кандидат је у јануару 2002. године успешно реализовао прву посматрачку мисију са ових простора на великом телескопу (Isaac Newton телескоп на Ла Палми, Тенерифи, Шпанија)

# 2. Нормирање на број коаутора у коауторским радовима

Кандидат др Еди Бон бавио се углавном анализом спектара активни галактичких језгара, посматраних током више деценија, како би се одредиле временске скале варијбилности и могуће периодичности у различитим компонентама спектра или флукса у оптичком домену спектра. У циљу изучавања, било је неопходно користити податке посматрања са више положаја на Земљи и у дугом временском периоду, те је међу коауторе било неопходно укључити све посматраче који су та посматрања обављали (радови садрже и нова, претходно необјављена посматрања па су рачунати као експериментални радови). Такође, анализирани су астрономски феномени из различитих углова, због чега су у рад укључени експерти из различитих области астрофизике. Из ових разлога број коаутора је већи од минималног броја потребног за нормирање поена које ови радови носе, иако је идеја потекла и углавном реализована у оквиру ова два пројекта Министарства просвете, науке и технолошког развоја Републике Србије на које је кандидат укључен, што се види и кроз то да је кандидат први аутор на овим радовима, што указује на то да је кандидат дао идеју, водио рад, па и највећи део резултата сам урадио у оквиру тих радова. На преостала два рада кандидат је урадио свој експертски део, мада су рад водили аутори из других држава.

# 3. Учешће у пројектима, потпројектима и пројектним задацима

Кандидат је учествовао на следећим пројектима:

1. пројектима 146002 Министарства просвете и заштите животне средине Републике Србије “Астрофизичка спектроскопија вангалактичких објеката” (2001-2010) и пројекту 146001 под називом “Утицај сударних процеса на спектре астрофизичке плазме”, у оквиру истог пројектног циклуса.
2. пројекат 176001 Министарства просвете, науке и технолошког развоја Републике Србије “Астрофизичка спектроскопија вангалактичких објеката” (2011 - 2020)
3. пројекат 176003 Министарства просвете, науке и технолошког развоја Републике Србије “Гравитација и структура космоса на великим скалама” (2011 - 2020), где кандидат успешно **руководио пројектним задатком** „Варијабилност зрачења у спектрима активних галаксија“ у оквиру пројекта 176003.
4. COST-CA16104 „Gravitational waves, black holes and fundamental physics“ (2016-2020), представник Србије у менаџмент комитету и у оквиру које је био задужен да управља **пројектним задатком** за супермасивне двојне црне рупе (WG1i).

5. пројекат билатералне сарадње са Француском “Павле Савић” (2006-2007)
6. COST-MP0905 “Black Holes in a Violent Universe” (2010-2014)

# 4. Активност у научним и научно-стручним друштвима

## 4.1. Чланство у научним друштвима

1. Међународна Астрономска Унија (International Astronomical Union – IAU)
2. Европско астрономско друштво (EAS)
3. Друштво астронома Србије
4. Евроазијско астрономско друштво

## 4.2. Чланство у Научним комитетима на међународним научним скуповима

1. 6th Workshop: Spectroscopy as a Tool To Investigate Active Galactic Nuclei And Gravitational Lenses, Zlatibor, Serbia, June 2024. (http://servo.aob.rs/AGN_GL/ginfo6.html)
2. The European Week of Astronomy and Space Science (EWASS, formerly JENAM), Lyon, France, 24 to 28 June 2019, symposium S2, “Quasars in cosmology” (https://eas.unige.ch/EWASS2019/session.jsp?id=S2) (tematski zbornik: https://www.frontiersin.org/research-topics/9822/quasars-in-cosmology)
3. I Workshop on Astrophysical Spectroscopy, Август 26 - 30, 2011, Орашац, Србија (link: http://servo.aob.rs/eeditions/CDS/Workshops/Spectroscopy_1/html/committees.htm)
4. II Workshop on Astrophysical Spectroscopy, Октобар 9 - 13, 2013, Врујци, Србија (link: http://servo.aob.rs/eeditions/CDS/Workshops/Spectroscopy_2/html/committees.htm)
5. III Workshop on Active Galactic Nuclei and Gravitational Lensing 7 - 11 Октобар 2014 - Кончарево, Србија (http://servo.aob.rs/eeditions/CDS/Workshops/AGN_GL_3/html/committees.htm)
6. XI међународне Српско-Бугарске конференције астронома, 14-18. мај, 2018, Белоградчик, Бугарска (http://servo.aob.rs/eeditions/CDS/Srpsko bugarska konferencija/11/html/soc-loc.html)

## 4.3. Чланство у Организационим комитетима на међународним конференцијама

Учествовао је у организацији следећих међународних конференција као секретар:

1. Chair of conference XIV Serbian Conference on Spectral Line Shapes in Astrophysics (SCSLSA) **Bajina Bašta, Serbia, June 19 - 23, 2023 (http://www.scslsa.matf.bg.ac.rs/index14.html)**
2. „X SCSLSA" - X Serbian Conference on Spectral Line Shapes - 15-19 јуна 2015. на Сребрном језеру, (https://www.scslsa.matf.bg.ac.rs/index10.html)
3. 1st Workshop: Spectroscopy as a Tool To Investigate Active Galactic Nuclei And Gravitational Lenses", Kosmaj, Babe, 7-11 јула, 2010. (http://servo.aob.rs/eeditions/CDS/Workshops/AGN_GL_1/html/committees.htm)
4. 10th Serbian Conference on Spectral Line Shapes in Astrophysics", Сребрно језеро, Србија, јун 15-19, 2015 (http://servo.aob.rs/eeditions/CDS/SCSLSA/10/html/soc-loc.html)

Као председник локалног организационог комитета организовао конференције:

1. „Serbian-Chinese Astronomical Scientific Meeting: Physics and Nature of Active Galactic Nuclei" Април 16 - 19, 2018, Београд, Мшински факултет, Србија (http://servo.aob.rs/serbchin/)
2. "Развој астрономије код Срба 2" одржане 5-7 априла 2002 у Београду. (http://servo.aob.rs/eeditions/CDS/Razvoj astronomije kod Srba/2/html/soc-loc.html)

## 4.4. **Предавање по позиву са међународног скупа**

1. **Bon, E.**, Panda, S., Bon, N., & Marziani, P. (2024), „Probing The Shallowing Blr Response To Optical Continuum In AGN", VI Conference on Active Galactic Nuclei and Gravitational Lensing, Zlatibor, Serbia, 2-6 June 2024. http://servo.aob.rs/AGN_GL/program6.html. https://doi.org/10.69646/aob24006
2. **E. Bon**, C. M. Gaskell, N. Bon, P. Marziani and S. Panda:, 2023, "Optical Reverberation Mapping Of The FeII Lines In NGC 4051", XIV Serbian Conference on Spectral Line Shapes in Astrophysics Bajina Bašta, Serbia, June 19 - 23, 2023., Book of Abstracts, Eds. Luka Č. Popović, Nataša Bon, Edi Bon and Sylvie Sahal-Brachot, ISBN 978-86-82296-04-1, p 37 (https://www.scslsa.matf.bg.ac.rs/index14.html )
3. **Edi Bon**, Nataša Bon and Paola Marziani: "Spectroscopic modeling of supermassive binary black hole orbits in active galactic nuclei" 16th Photonics Workshop, Kopaonik, March 12-15, 2023. Book of abstracts, eds. D. Lukić, M. Lekić, Z. Grujić, progres report, ISBN 978-86-82441-59-5 , p12, (http://www.photonicsworkshop.ipb.ac.rs/16/) (link abstr. Book)
4. **Edi Bon**, Nataša Bon, Paola Marziani and Miroslava Vukčević, "Main Sequence of Quasars and Variability Expectations", 18th Photonics Workshop Kopaonik, March 16-20, 2025. ISBN 978-86-82441-71-7, p19, (link abs. book) (линк прог. конфер: http://www.photonicsworkshop.ipb.ac.rs/18/index.php/time-table)

# 5. Организација научног рада:

## 5.1. Руковођење научним институцијама

Решењем председника Владе Републике Србије од 25. 10. 2014. године именован је за члана Управног одбора Астрономске опсерваторије у Београду, где је провео један мандат.

## 5.2. Руковођење пројектима, потпројектима и задацима

Успешно руководио пројектним задатком у оквиру пројекта 176003, под називом „Гравитацијаи структура свемира на великим скалама" подржаног од стране Министарства просвете науке и технолошког развоја 2012-2019.

## 5.3. Руковођење међународним пројектима, потпројектима и задацима

Био је представник за Србију у менаџмент комитета COST akcije CA16104 „Gravitational waves, black holes and fundamental physics“, у оквиру које је bio задужен да управља радном групом WG1 “Super massive binary black hole observational signatures” (линк: https://www.cost.eu/actions/CA16104/#tabs+Name:Management Structure).

# 6. Ангажованост у развоју услова за научни рад, образовању и формирању научних кадрова:

## 6.1. Ангажованост у формирању научног кадра

Кандидат је био ангажован у формирању научног кадра – водио је тезе докторанада које још нису завршене. У формирању научног кадра кандидат наводи следеће докторанаде:

- **Неда Рађабпур (Neda Rajabpour) –** коменторство на докторској дисертацији на факултету “School of Science at Western Sydney University”, започето у фебруару 2024., на тези са одобреном темом изучавања радио галаксија прстенастог облика (“Radio Ring Galaxies”). Неда је због трудничког одсуства привремено паузирала рад на тези и тренутно је замрзла годину на студијама. У прилогу је достављен документ који потврђује ову сарадњу.
- **Маријане Смаилагић** (имају један заједнички рад у рецензираном часопису са ИСИ листе објављен М23 категорије, и три саопштења на међународним конференцијама). Маријана је имала парктично завршену тезу, али је добила стипендију у на престижном факултету у Сједињеним Америчким Државама, па је одлучила да студије не заврши у Србији како не би утицала на стипендију коју је добила. Маријана се није више враћала у Србију, већ је докторске студије са другом темом наставила у Америци. Заједнички радови са Маријаном, док је радила тезу су:

1. **Smailagic, M. & Bon, E.**, 2015, “Line Shapes Emitted from Spiral Structures around Symmetric Orbits of Supermassive Binary Black Holes”, *Journal of Astrophysics and Astronomy*, 36, pp.513-527, DOI: 10.1007/s12036-015-9365-6 (и.ф. 0.7) (број цитата без аутоцитата 1, укупно 4), категорија часописа **M23 (линк на рад https://link.springer.com/article/10.1007/s12036-015-9365-6)**

2. **M. Smailagic and E. Bon:** “Modelling Line Emission From Sub Parsec Spiral Structures Around Eccentric Orbits Of Supermassive Binary Black Hole Systems”, 2015, Book of abstracts of the X Serbian Conference on Spectral Line Shapes in Astrophysics, 15-19 jun 2015. Srebrno jezero, p65 (линк https://www.scslsa.matf.bg.ac.rs/program10.html)

3. **M. Smailagic and E. Bon**: “Line Shapes Emitted From Spiral Structures Around Symmetric Orbits Of Supermassive Binary Black Holes”, 2015, Book of abstracts of the X Serbian Conference on Spectral Line Shapes in Astrophysics, 15-19 jun 2015. Srebrno jezero, p66 линк http://servo.aob.rs/scslsa/files/10scslsa-book.pdf)

4. **Marijana Smailagić and Edi Bon**, “Simplified Model Of Line Profile Variability From Eccentric Orbits Of Supermassive Binary Black Hole Systems”, Book of abstracts of the X Serbian-Bulgarian Astronomical Conference, Belgrade, Serbia, May 30 - June 3, p. 49 (линк http://servo.aob.rs/eeditions/CDS/Srpsko%20bugarska%20konferencija/10/pdfs/040.pdf)

   Поред заједничких радова који потврђују ову сарадњу, у прилогу су и документ који је поднет руководиоцу пројекта 176001 Министарства просвете, науке и технолошког развоја Републике Србије “Астрофизичка спектроскопија вангалактичких објеката” (2011 – 2020), на основу кога је руководилац пројекта Лука Ч. Поповић прикључио Маријану Смајлагић том пројекту на Астрономској опсерваторији, где је радила у истраживачком звању до свог одласка из Србије на студије у Сједињеним Америчким Државама. Документ је садржао предлог дефинисања докторске дисертације са насловом тезе, апстрактом, основним циљевима и метотама.

- **Александар Оташевић** (један заједнички рад у рецензираном часопису категорије М22 и једно саопштење на међународној конференцији). Александар је прекинуо докторске студије након што је добио посао у Норвешком Телекому, где је након тога, са породицом и отишао, где и данас живи. Због тога тема ове тезе није заведена на факултету, јер кандидат није положио све испите, па је једини доказ о овој сарадњи заједнички рад који је објављен за време док је радио на тези:
  - **Bon, Edi**; Jovanović, Predrag; Marziani, Paola; Bon, Nataša; **Otašević, Aleksandar**, “Exploring possible relations between optical variability time scales and broad emission line shapes in AGN”, *Frontiers in Astronomy and Space Sciences*, Volume 5, id.19 (2018) DOI: 10.3389/fspas.2018.00019 (број цитата 5, а без аутоцитата 3) (линк https://ui.adsabs.harvard.edu/link_gateway/2018FrASS...5...19B/PUB_HTML)

## 6.2 Учешће у комисијама

Реферисао је докторске дисертације кандидата Велибора Веловића, Перице Манојловића, и мастер тезе Musawer Ahmed Bajwa са School of Science at Western Sydney University.

Учествовао у комисији за одбрану магистарске тезе Сање Јонић на Математичком Факултету Универзитета у Београду.

## 6.3 .Рецензије радова

Кандидат је рецензирао радове у следећим часописима :

- Astrophysical Journal,
- Monthly Notice Royal Society,
- Advances in Space Research,
- Advances in Astronomy,

- Atoms,
- Galaxies,
- Frontiers in Astronomy

Кандидат је едитор је у међународном часопису “Frontiers in Astronomy”.

**У периоду након избора у звање виши научни сарадник рецензирао следеће радове:**

MNRAS: MN-23-1145-MJ, ApJ – AAS59322R1, ApJ – AAS30233R1, ApJ – AAS16848R1, [Universe] Manuscript ID: universe-2771777, [Universe] Manuscript ID: universe-2996011, [Universe] Manuscript ID: universe-2027746, *Front. Astron. Space Sci.* **6**:00073. doi: 10.3389/fspas.2019.00073

## 6.4. Педагошки рад

Кандидат је дугогодишњи сарадник у ИС Петница, још од 1996. године.

Радио је као предавач физике у VI Београдској гимназији 1997. године.

Држао је семинаре и предавања на Катедри за Астрономију(више пута), на Коларцу, Астрономској опсерваторији (више пута), Математичком институту САНУ (Београд, 2024.), опсерваторији у Падови (INAF-Osservatorio Astronomico di Padova у Италији, 2012), на факултету у Љубљани (Fakulteta za matematiko in fiziko, Универзитет у Љубљани, Словенија, 2013.), итд...

Поред ових активности као сарадник у настави је учествовао у евалуацији више докторских и мастер теза, као члан комисије и рецензент:

- Università degli Studi di Padova, Scuola di dottorato in astronomia, evaluation of the Ph.D. thesis of Sina Chen
- PhD Thesis Examination: Perica Manojlovic (17473747) Western Sydney University, thesis title: „Searching for Clusters using Large ASKAP and ATCA Surveys“
- PhD Thesis Examination: Velibor Velovic (19246651) Western Sydney University, thesis title: Behaviour of large scale active galactic nuclei radio jets in different environments: „The case for kiloparsec and Megaparsec recollimation jets“
- Master thesis examination: Musawer Ahmed Bajwa - 17595689 - Western Sydney University, thesis title: „Discoveries of new Population of Supernova Remnants (SNR's) in the Milky Way“

## 6.5. Допринос развоју науке у земљи кроз популаризацију науке:

У периоду након избора у звање виши научни сарадник, одржао семинар на позив:

- Еди Бон и Иван Бон - „Ослушкивање свемира звучним скулптурама“, Математички институт **САНУ**, Семинар Математика и музика, 20. Март 2023. (линк на предавање https://miteam.mi.sanu.ac.rs/asset/K2wPyiYMdaKf8n57d)

Одобрени пројекти Министарства за култру са темом промоције науке и споја науке и уметности:

Пројекат за финансирање или суфинансирање уметничких дела из области визуелних уметности у 2021. години број 119-01-167/2021-03 од 16.4.2021. године, по расписаном

јавном конкурсу Министарства културе и информисања од 30. децембра 2020. “Звучне скулптуре - Звуци космоса, Иван Бон, Еди Бон, 6 скулптура”, Институт за физику у Београду Институт од националног значаја,Београд.

Суфинансирање пројекта “Интерактивна звучна скулптура - Звук настанка видљивог Универзума” одобреног на основу Предлога решења о избору пројеката за финансирање уметничких дела из области визуелних уметности у 2024. години број: 002577273 2024 11800 002 001 643 001 од 28.8.2024. године и Решења о додели средстава за финансирање уметничких дела из области визуелних уметности у 2024. години број: 003050374 2024 11800 002 001 643 001 од 28.10.2024. године.

Снимио је више научних прилога у емисијама школског програма на РТС-у.

- Са краћим прилозима учествовао у више емисија на РТС планети у периоду 2019-2024.
- “Студио знања” 9. emisija TV RTS 24. 02. 2017.
- “Сутра сам ја – Астрофизичар” емитована у фебруару 2016.
- “Београдска хроника” емитована 18. 10. 2012**.**
- “Контекст 21”, емитована 08. 05. 2015.
- “Контекст 21” емитована 21.11.2014.
- “Соларис” радио Београд 2, емисија емитована 25.2.2015.

Осим тога, одржао је више јавних предавања на Катедри за астрономију.

Одржао је више јавних предавања на Коларчевом народном универзитету.

Осмислио је и организовао циклус популарних предавања (2015. године) на Коларчевом народном Универзитету под називом “Циклус Екстремна гравитација “, у оквиру кога је одржао и једно предавање о двојним црним рупама.

У оквиру научно-забавне манифестације „Ноћ истраживача”, 23. септембра, 2011. на платоу код Филозофског факултета учествовао је у петоминутним разговорима са посетиоцима.

Коаутор је рецензиране самосталне научно-уметничке изложбе „Звуци Космоса“, у Дому омладине у Београду (одржане од 30. 1. 2017. до 18. 2. 2017), у оквиру које је одржао и јавно предавање о начинима детектовања позадинског микроталасног зрачења под насловом „Звуци Космоса“.

# 7. Утицајност научних резултата

О научном значају публиковања резултата Едија Бона сведочи и позитивно навођење његоих радова у часописима, тезама и монографијама којих је до сада било више од **2300**, од чега више од 1400 **без аутоцитата** (по Google scholar сервису), односно, преко 1700 по Scopus бази, и преко 1967 по NASA ADS бази.

Утицајност научних резултата се исказује кроз цитираност и Хиршов индекс. Кандидат има **Хиршов индекс h=22** (по Google scholar сервису)**,** што се такође може видети на основу списка цитираности у прилогу (по изворима ADS, SCOPUS овај индекс је 19)**.**

# 8. Оригиналност научног рада

Др Еди Бон је проучавањаем периодичне варијабилности у спектрима и кривама сјаја код активних галактичких језгара, дошао до **открића** првог спектроскопски двојног система супермасивних црних рупа, што је објављено крајем 2012. године у водећем међународном часопису (Bon et al, ApJ, 2012., у категорији **M21,** видети у прилогу референцу). Ово откриће није део неког великог међународног пројекта, већ је **у потпуности реализовано у нашој земљи и помоћу домаћих ресурса**. У оквиру ових истраживања развијена је и једна нова метода за проналажење кандидата за периодично променљиве активне галаксије, која је објављена 2016. године у врхунском часопису (са импакт фактором преко 14, у категорији **M21a**, Bon et al, ApJS, 2016., видети у прилогу), у оквиру кога је пронађена периодична променљивост још једног објекта (NGC 5548), такође кандидата двојне супермасивне црне рупе. Убрзо за тим кандидат је учествовао у још једном открићу кандидата двојне супермасивне црне рупе у објекту Ark 120, објављеном у још једном **M21a** раду(ApJS, 2019). године. Ово је релативно нова област и у свету и код нас, која отвара сасвим нове погледе у изучавању механизама који производе енергије ових објеката који су најсјајнији објекти у Космосу и веома је значајна због недавних првих детекција гравитационих таласа, који су постали нови прозор у свет истраживања космоса. Као наставак ових истраживања дугорочних мониторинг кампања, објављен је недавно и рад M21 (MNRAS, 2023) .

Детекцијом првих гравитационих таласа покренута је нова грана астрофизике, која је омогућила да се поред електромагнетних таласа и честица космичког зрачења, који су до сада коришћени за истраживања свемира, користе и гравитациони таласи за изучавање свемира. Као једна од првих и важних акција везаних за ова истраживања покренута је COST акција за гравитационе таласе (COST - CA16104 - Gravitational waves, black holes and fundamental physics (2016-2020), у којој је кандидат, поред позиције у менаџмент комитету као представник за Србију, стекао значајно место, на основу својих открића везаних за ову област и у оквиру овог пројекта водио подпројекат (радну групу) за супермасивне двојне црне рупе, радна група WG1i, (https://www.cost.eu/actions/CA16104/#tabs+Name:Management_Structure). Кандидат је писао поглавље у ревијалном раду који је ова акција објавила *(Barack, Leor et al. "Black holes, gravitational waves and fundamental physics: a roadmap", **Class.Quant.Grav.** 36 (2019)*) који је до сада цитиран преко 800 пута.

У периоду од избора у звање научни сарадник, др Еди Бон се највише бавио проучавањаима варијабилности у спектрима и кривама сјаја код активних галактичких језгара, у оквиру којих је објавио више радова од којих су неки за ових пет година цитирани и преко 113 пута (Sniegowska et al. *ApJ* (2020) , односно 95 без аутоцита). Учествовао је у радовима који теоријски објашњавају настајање феномена активних галаксија са ектремном променљивошћу, односно тзв. "промењивим изгледом" (changing look – CL AGN) Sniegowska et al. *ApJ* (2020) и Wang and Bon *A&A* (2020). Веома дуг мониторинг једног од оваквих објеката је анализиран у раду из 2023. године (линк), који је цитриран већ преко 25 пута. Поред ових радова, кандидат има још неколико радова на ову тему у M20 категоријама, након избора у тренутно звање.

Поред поменутих дисциплина др Еди Бон се прикључио новој области под називом "Квазари у космологији". Заправо, до садашња космолошка истраживања су се базрала на резултатима стандардних свећа (цефеиде и супернове 1a), које су видљиве махом у блиским

галаксијама. Како би се изучавале веће раздаљине, било је потребно пронаћи објекте са довољно сличним апсолутним сјајем за употребу сличну стандардним свећама, а које је у исто време било могуће посматрати на већим удаљеностима. Квазари по својој природи показују ова својства, мада су многи од њих веома промељивог сјаја, па као такви нису погодни за космологију. Постоји више покушаја да се селектује тзв. златни узорак галаксија, који је могуће употребљавати за тестирање космолошких модела. На једном од ових селекција је кандидат је учествовао и дао свој допринос у овим космолошким истраживањима, а то су такозвани екстремни акретори, који се карактеришу сатурацијом у сјају када је степен акреције близак Едингтоновом лимиту. Кандидат има више радова у периоду од избора у претходно звање, са темом у главном о поменутим екстремним акреторима, који због својих карактеристика могу да се користе као стандардне свеће у Космологији. Организовао симпозијум (као члан научног комитета) са овим насловом теме, у оквиру међународне европске конференције у Лиону у Француској (The European Week of Astronomy and Space Science (EWASS, https://eas.unige.ch/EWASS2019/session.jsp?id=S2). Ово је релативно **нова област** и у свету и код нас, која отвара сасвим нове погледе у изучавању механизама који производе енергије, ових објеката који су најсјајнији објекати у Космосу.

# 9. Конкретан допринос кандидата у реализацији радова у научним центрима у земљи и иностранству

Кандидат је самостално развио нове методе и написао делове кода потребне за постизање ових резултата. Резултати су објављени у међународним часописима изузетне вредности (М21а I М21 видети у прилогу).

До сада је учествовао је у организацији међународних скупова од којих 3 организовао као секретар или кочер конференције, 2 као председник локалног организационог комитета, док је у 6 међународних конференција и 3 националне конференције био у члан научних комитета.

Реализовао више посматрачких активности на великим међународним телескопима (Исак Њутн 2.5m телескоп у Шпанији, где је и боравио, GEMINI 8.1m телескоп у Чилеу, Асиаго 1.6m телескоп у Италији, Very Large Telescope 8.2m у Чилеу, Рожен 2.1m у Бугаској).

Био је п**редставник за Србију у менаџмент комитету COST акције CA16104** „Gravitational waves, black holes and fundamental physics“, у оквиру које је био задужен да **управља пројектинм задатком** “Super massive binary black hole observational signatures” (WG1i) (линк). Такође, у оквиру овог пројекта писао је поглавље у ревијалном раду (Barack, Leor et al. “Black holes, gravitational waves and fundamental physics: a roadmap", ***Class.Quant.Grav.*** 36 (2019), М21 категорије) који до сада цитиран преко 800 пута (Google scholar), односно 660 пута (по Scopus бази), а који представља веома значајан допринос новој грани физике гравитационих таласа.

Боравио два пута по месец дана у Институту за астрофизику на Канарским острвима у Шпанији. Неколико пута боравио на опсерваторији у Лиону по више недеља у оквиру билатералног пројекта Павле Савић. Више пута боравио на ИНАФ институту у Падови у Италији, у склопу које се налази опсерваторија Асиаго, на којој је такође боравио.

# Списак радова Едија Бона  након покретања избора у звање Виши научни сарадник:

## M21a: Међународни часопис изузетних вредности 1 x 10 = 10 (нормирано 4.55)

1. Marziani, P., Del, O. A., Negrete, A. C., Dultzin, D., Piconcelli, E., Vietri, G., Loli, M.-A. M., D'Onofrio, M., **Bon, E.**, Bon, N., Machado, A. D., Stirpe, G. M., & Rios, T. M. B. (2022). The Intermediate-ionization Lines as Virial Broadening Estimators for Population A Quasars. **Astrophysical Journal Supplement Series**, 261(2). https://doi.org/10.3847/1538-4365/ac6fd6 (4.55)

## M21: Врхунски међународни часопис 5 x 8 = 40 (нормирано 31.84)

1. Chen, Y.-J., Bao, D.-W., Zhai, S., Fang, F.-N., Hu, C., Du, P., Yang, S., Yao, Z.-H., Li, Y.-R., Brotherton, M. S., McLane, J. N., Zastrocky, T. E., Olson, K. A., **Bon, E.**, Bai, H.-R., Fu, Y.-X., Liu, J.-R., Wang, Y.-L., Maithil, J., et al. (2023). Broad-line region in NGC 4151 monitored by two decades of reverberation mapping campaigns - I. Evolution of structure and kinematics. Monthly Notices of the Royal Astronomical Society, 520(2), 1807-1831. https://doi.org/10.1093/mnras/stad051 (br.aut.=36, norm=**1.18**)

2. Wang, J.-M., & **Bon, E.** (2020). Changing-look active galactic nuclei: close binaries of supermassive black holes in action. Astronomy and Astrophysics, 643(L9), 1-6. https://doi.org/10.1051/0004-6361/202039368 (**8**)

3. Bon, N., Marziani, P., **Bon, E.**, Negrete, C. A., Dultzin, D., del, O. A., D'Onofrio, M., & Martenez-Aldama, M. L. (2020). Selection of highly-accreting quasars. Astronomy and Astrophysics, 635(A151), 1-26. https://doi.org/10.1051/0004-6361/201936773 (br.8, **6.67**)

4. Sniegowska, M., Czerny, B., **Bon, E.**, & Bon, N. (2020). Possible mechanism for multiple changing-look phenomena in active galactic nuclei [EDP sciences]. Astronomy and Astrophysics, 641(A167), 1-10. https://doi.org/10.1051/0004-6361/202038575 (**8**)

5. Ganci, V., Marziani, P., D'Onofrio, M., del, O. A., **Bon, E.**, Bon, N., & Negrete, C. A. (2019). Radio loudness along the quasar main sequence. Astronomy and Astrophysics, 630(A110), 1-23. https://doi.org/10.1051/0004-6361/201936270 (**8**)

## M22: Истакнути међународни часопис 3 x 5 = 15 (нормирано 10.13)

1. Marziani, P., Berton, M., Panda, S., & **Bon, E.** (2021). Optical Singly-Ionized Iron Emission in Radio-Quiet and Relativistically Jetted Active Galactic Nuclei. **Universe**, 7(12), 484-484. https://doi.org/10.3390/universe7120484 (**5**)
2. Xu, D. W., Komossa, S., Grupe, D., Wang, J., Xin, L. P., Han, X. H., Wei, J. Y., Bai, J. Y., **Bon, E.**, Cangemi, F., Cordier, B., Dennefeld, M., Gallo, L. C., Kollatschny, W., Kong, D.-F., Ochmann, M. W., Qiu, Y. L., & Schartel, N. (2024). Changing-Look Narrow-Line Seyfert 1 Galaxies, their Detection with SVOM, and the Case of NGC 1566. **Universe**, 10(2). https://doi.org/10.3390/universe10020061 (br.aut.=18, norm=**1.56**)

3. Dultzin, D., Marziani, P., de, D. J. A., Negrete, C. A., Del, O. A., Martinez-Aldama, M. L., D'Onofrio, M., **Bon, E.,** Bon, N., & Stirpe, G. M. (2020). Extreme Quasars as Distance Indicators in Cosmology. **Frontiers In Astronomy And Space Sciences**, 6, 1-12. https://doi.org/10.3389/fspas.2019.00080 (**3.57**)

## M23: Међународни часопис 5x 3 = 15 (2*3+2.14+1.15+3+1.67 = 13.96)

1. P. Marziani, **E. Bon**, N. Bon, and M. D'Onofrio, "Where to search for supermassive binary black holes," **Universe**, vol. 11, no. 3, 2025. (**3**)
2. Marziani, P., Floris, A., Deconto-Machado, A., Panda, S., Sniegowska, M., Garnica, K., Dultzin, D., D'Onofrio, M., Del Olmo, A., **Bon, E.**, & Bon, N. (2024). From Sub-Solar to Super-Solar Chemical Abundances along the Quasar Main Sequence. **Physics**, 6(1), 216-236. Https://doi.org/10.3390/physics6010016 (br.aut.11, norm. **1.67**)
3. Marziani, P., **Bon, E.,** Bon, N., D'Onofrio, M., Punsly, B., Sniegowska, M., Czerny, B., Panda, S., Martnez, A. M. L., del, O. A., Deconto-Machado, A., Negrete, C. A., Dultzin, D., Buendia, T., & Garnica, K. (2021). The main sequence of quasars: The taming of the extremes. **Astronomische Nachrichten**, 343 (1-2). https://doi.org/10.1002/asna.20210082 (br.aut.=15,norm=**1.15**)
4. Panda, S., **Bon, E.**, Marziani, P., & Bon, N. (2021). Taming the derivative: Diagnostics of the continuum and Hβ emission in a prototypical Population B active galaxy. **Astronomische Nachrichten**, 343(1-2), 1-10. https://doi.org/10.1002/asna.20210091 (**3**)
5. Marziani, P., **Bon, E.**, Bon, N.., Martinez-Aldama, M. L., Stirpe, G. M., D'Onofrio, M., del Olmo, A., Negrete, C. A., & Dultzin, D. (2020). Quasar emission lines as virial luminosity estimators, **Contributions of the Astronomical Observatory Skalnate Pleso**, 50(1), 244-256. https://doi.org/10.31577/caosp.2020.50.1.244 (br.aut.=9,norm=**2.14**)

## M28б: Уређивање истакнутог међународног научног часописа на годишњем нивоу или гост уредник тематског зборника у тој категорији: 5 година x 2.5 + 2.5тз =15

1. Члан уређивачког одбора међународног часописа протеклих **5 година** "Frontiers in Astronomy and Space Sciences", у оквиру секције "Milky Way and Galaxies" (Frontiers Media Group), www.frontiersin.org (Associate editor in Extragalactic Astronomy)
2. У оквиру M22 часописа *Frontiers in Astronomy and Space Sciences*, као гост уредник уређивао тематску публикацију "Quasars in Cosmology" као гост едитор: https://www.frontiersin.org/research-topics/9822/quasars-in-cosmology

## M29a: Уређивање међународног научног часописа; Уређивање тематских монографија 1.5

1. У оквиру M23 часописа Physics, као гост едитор уређивао тематски зборник публикација под називом: "XIV Spectral Line Shapes in Astrophysical and Laboratory

Plasma 2023", Eds. L. Č. Popović, N. Bon, E. Bon and S. Sahal-Brechot https://www.mdpi.com/journal/physics/special_issues/14thserbianconference

## M32: Предавање по позиву са међународног скупа штампано у изводу 4x1.5=6

1. **Bon, E.**, Panda, S., Bon, N., & Marziani, P. (2024), „Probing The Shallowing Blr Response To Optical Continuum In AGN", Abstract book: VI Conference on Active Galactic Nuclei and Gravitational Lensing. https://doi.org/10.69646/aob24006

2. **E. Bon**, C. M. Gaskell, N. Bon, P. Marziani and S. Panda:, 2023, "Optical Reverberation Mapping Of The FeII Lines In NGC 4051", XIV Serbian Conference on Spectral Line Shapes in Astrophysics Bajina Bašta, Serbia, June 19 - 23, 2023., Book of Abstracts, Eds. Luka Č. Popović, Nataša Bon, Edi Bon and Sylvie Sahal-Brachot, ISBN 978-86-82296-04-1, p 37 (https://www.scslsa.matf.bg.ac.rs/index14.html )

3. **Edi Bon**, Nataša Bon and Paola Marziani: "Spectroscopic modeling of supermassive binary black hole orbits in active galactic nuclei" 16th Photonics Workshop, Kopaonik, March 12-15, 2023. Book of abstracts, eds. D. Lukić, M. Lekić, Z. Grujić, progres report, ISBN 978-86-82441-59-5 , p12, (http://www.photonicsworkshop.ipb.ac.rs/16/) (link abstr. book)

4. **Edi Bon**, Nataša Bon, Paola Marziani and Miroslava Vukčević, "Main Sequence of Quasars and Variability Expectations", Book of abstracts, 18th Photonics Workshop Kopaonik, March 16-20, 2025. ISBN 978-86-82441-71-7, p19, (link abs. book) (линк прог. конфер: http://www.photonicsworkshop.ipb.ac.rs/18/index.php/time-table)

## M33: Саопштење са међународног скупа штампано у целини 4 x 1 = 4 (3.71)

1. Marziani, P., **Bon, E.**, Bon, N., del, O. A., Martinez-Aldama, M., D'Onofrio, M., Dultzin, D., Negrete, C., & Stirpe, G. (2019). Quasars: From the Physics of Line Formation to Cosmology. Atoms, 7(1). https://doi.org/10.3390/atoms7010018 (br.aut.9,norm 0.71)

2. del, Olmo. A., Marziani, P., Ganci, V., D'Onofrio, M., **Bon, E.**, Bon, N., & Negrete, A. C. (2019). Optical spectral properties of radio loud quasars along the main sequence. Proceedings of the International Astronomical Union, 15 (S356), 310-313. https://doi.org/10.1017/s1743921320003191

3. Panda, S. ; **Bon, E.** ; Marziani, P. ; Bon, N., 2023, "Saturation of the curve: Diagnostics of the continuum and Hβ emission in Population B active galaxy NGC 5548", Boletim da Sociedade Astronomica Brasileira. Proceedings da XLV Reuniao Anual da SAB, p.246-250

4. **Bon, E.**, Marziani, P., & Bon, N. (2024). Varability Along The Main Sequence Of Quasars. Contributed Papers & Abstracts Of Invited Lectures, Topical Invited Lectures And Progress Reports: 32nd SUMMER School and International Symposium on the Physics of Ionized Gases. https://doi.org/10.69646/aob103p178

## M34: Саопштење са међународног скупа штампано у изводу 4 x 0.5 = 2 (1.75)

1. N. Bon, **E. Bon**, P. Marziani, C. M. Gaskell and S. Panda: "Variability Of Agns In The Context Of The Main Sequence Of Quasars", XIV Serbian Conference on Spectral Line Shapes in Astrophysics Bajina Bašta, Serbia, June 19 - 23, 2023 Book of Abstracts, Eds. Luka Č. Popović, Nataša Bon, Edi Bon and Sylvie Sahal-Brachot, ISBN 978-86-82296-04-1 p 38 (https://www.scslsa.matf.bg.ac.rs/index14.html)

2. P. Marziani, S. Panda, M. Sniegowska, A. del Olmo, A. Deconto-Machado, **E. Bon**, N. Bon, A. Floris, M. D`Onofrio, C. A. Negrete, D. Dultzin and K. Garnica: "Metal Content Along The Quasar Main" Sequence, XIV Serbian Conference on Spectral Line Shapes in Astrophysics Bajina Bašta, Serbia, June 19 - 23, 2023 Book of Abstracts, Eds. Luka Č. Popović, Nataša Bon, Edi Bon and Sylvie Sahal-Brachot, ISBN 978-86-82296-04-1, p 49. (https://www.scslsa.matf.bg.ac.rs/index14.html) (бр.аутора12, норм. 0.25)

3. Nataša Bon, **Edi Bon** and Luka Č. Popović, "The Investigation of The Central Activity and Stellar Population Parameters in Active Galactic Nuclei", 16th Photonics Workshop, Kopaonik, March 12-15, 2023. Book of abstracts, eds. D. Lukić, M. Lekić, Z. Grujić, progres report, ISBN 978-86-82441-59-5 , p13, (http://www.photonicsworkshop.ipb.ac.rs/16/)

4. **Edi Bon**, Nataša Bon, Paola Marziani, Miroslava Vukčević, 2022, “Exploring The Active Galactic Nuclei Through Photometric Variability” , Photonics Workshop, Book of Abstracts- 15th Photonics Workshop, (Conference), Kopaonik, March 13-16, 2022; Institute of Physics, ISBN 978-86-82441-55-7, pp-45 (линк)

## M36: Уређивање зборника саопштења са међународног скупа (1.5)

1. M36, Уређивање зборника саопштења међународног скупа 14th SCSLSA - Book of Abstracts, XIV Serbian Conference on Spectral Line Shapes in Astrophysics, Bajina Bašta, Serbia, June 19 - 23, 2023, Eds. L. Č. Popović, N. Bon, **E. Bon** and S. Sahal-Brechot ISBN 978-86-82296-04-1 (https://www.mdpi.com/journal/physics/special_issues/14thserbianconference)

## M53: Рад у часопису националног значаја 1x1=1

1. **Bon, E.**, & Bon, I. (2024). Relics of the First Sound Waves in the Cosmos Through Soundsculptures, Zbornik Radova “A hidden harmony: Mathematics and Music through the Ages”- Matematički institut SANU, Beograd. ISSN: 0351-9406, ИСБН: 978-86-80593-80-7 29/21, pp. 41-67. https://doi.org/10.18485/mi_sanu_zr.2024.29.21.ch3 (ранг овог зборника је M12, на основу одлуке Одбора за математику, видети: линк на Репозиторијум МИ САНУ (https://researchrepository.mi.sanu.ac.rs/handle/123456789/5468?mode=simple) , те овај рад заправо, на основу броја аутоцитата који је већи од 2, спада у категорију **M14 која носи 4 поена, али пошто немамо одлуку нашег матичног одбора, убацили смо у категорију M53**)

## M63: Саопштење са скупа националног значаја штампано у целини 1x0.5=0.5

1. Vukčević, Miroslava; **Bon, Edi**; Bon, Nataša, 2024, "Dynamics of Spiral Galaxies in Nonlinear Regime - Nonlinear Solitary Waves in Accretion Disk", XX Serbian Astronomical Conference, October 16-20, 2023, Belgrade, Serbia, Publications de l'Observatoire Astronomique de Beograd, Vol 104, 156-159, DOI: 10.69646/aob104p159

# Елементи за квантитативну оцену научног доприноса

| Категорија | број радова | број бодова | укупно | нормирано |
|---|---|---|---|---|
| | | | | |
| M21a | 1 | 10 | 10 | 4.6 |
| M21 | 5 | 8 | 40 | 31.84 |
| M22 | 3 | 5 | 15 | 10.13 |
| M23 | 5 | 3 | 15 | 13.96 |
| M28б | 6 | 2.5 | 15 | 15 |
| M29a | 1 | 1.5 | 1.5 | 1.5 |
| M32 | 4 | 1.5 | 6 | 6 |
| M33 | 4 | 1 | 4 | 3.71 |
| M34 | 4 | 0.5 | 2 | 1.25 |
| M36 | 1 | 1.5 | 1.5 | 1.5 |
| M53 | 1 | 1 | 1 | 1 |
| M63 | 1 | 0.5 | 0.5 | 0.5 |

| | Укупно | Обавезни 2 | Обавезни 1 | Остало |
|---|---|---|---|---|
| Укупно | 111.5 | 80 | 106.5 | 3.5 |
| Нормирано | 90.94 | 60.48 | 86.69 | 2.75 |

## Минимални квантитативни захтеви за стицање појединачних научних звања

| | | | | |
|---|---|---|---|---|
| | | | | |
| | | Неопходно XX= | Остварено бодова | Нормирана вредност остварених бодова |
| **Научни сарадник** | Укупно | 16 | | |
| | M10+M20+M31+M32+M33 M41+M42 ≥ | 10 | | |
| | M11+M12+M21+M22 M23+M24 ≥ | 5 | | |
| | | | | |
| **Виши научни сарадник** | Укупно | 50 | 111.5 | 90.94 |
| | M10+M20+M31+M32+M33 +M41+M42+M90 | 40 | 106.5 | 86.69 |
| | M11+M12+M21+M22+ M23 | 30 | 80 | 60.48 |
| | | | | |
| **Научни саветник** | Укупно | 65 | | |
| | M10+M20+M31+M32+M33 +M41+M42+M90 | 50 | | |
| | M11+M12+M21+M22+ M23 | 35 | | |
| | | | | |

# Мишљење и препорука

Увидом у научно-истраживачки рад кандидата и после анализе поднетог материјала, Комисија констатује да је кандидат учествовао у значајним истраживачким радовима у области астрономије, астрофизике и сродних наука, поред других бројних активности. По броју и категорији радова кандидат значајно премашује минималне квантитативне услове потребне за реизбор у звање виши научни сарадник. Такође, прегледом осталих активности кандидата констатовали смо да испуњава и премашује број и обим квалитативних услова потребних за реизбор у тражено звање.

На основу анализе поднетог материјала као и на основу личног познавања кандидата, Комисија је дошла до закључка да су научни опус др Едија Бона и његови научни резултати од реизбора до сада веома значајни, не само по квалитету и квантитету, него и због чињенице да је он дао знатан допринос развоју астрофизичких истраживања у области активних галактичких језгара, као и других области, што је у великој мери допринело квалитету научноистраживачког рада Астрономске опсерваторије и ове области науке у Србији у опште.

Имајући у виду све претходно изложено сматрамо да Еди Бон задовољава све услове за РЕИЗБОР у звање ВИШИ НАУЧНИ САРАДНИК.

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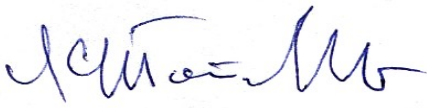

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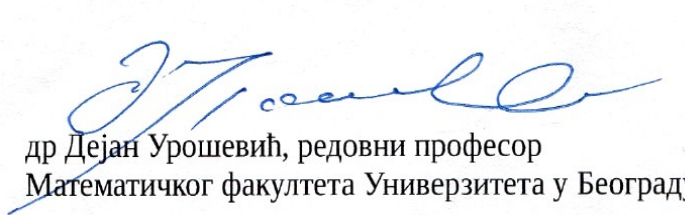

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# Списак радова са навођењем цитираности без аутоцитата

Barack, Leor, Cardoso, Vitor, Nissanke, Samaya, Sotiriou, Thomas P., Askar, Abbas, Belczynski, Chris, Bertone, Gianfranco, **Bon, Edi**, Blas, Diego, Brito, et. al, 2019, "Black holes, gravitational waves and fundamental physics: a roadmap", Classical and Quantum Gravity, Volume 36, Issue 14, article id. 143001. **(730,726)**

ukupno citata 730,

bez autocitata 726

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# Сумирани резултати цитираности без аутоцитата поређаних по цитираности без аутоцитата

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