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# BIBLIOGRAFIJA

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Fizičkog odsjeka  
Prirodoslovno-matematičkog fakulteta  
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Prirodoslovno-matematičkog fakulteta  
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Zagreb, 2019.

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# **PREDGOVOR**

Bibliografija obuhvaća radove zaposlenika Fizičkog odsjeka Prirodoslovno-matematičkog fakulteta Sveučilišta u Zagrebu u desetogodišnjem razdoblju, odnosno od 2009. do 2018. godine. Uvršteni su radovi objavljeni u vrijeme kad su autori bili zaposlenici Fizičkog odsjeka. Bibliografija sadrži 1207 bibliografskih jedinica i sve su strukturirane prema prilagođenim Vancouverskim pravilima, što je pridonijelo jasnijem prikazu informacija.

Bibliografija je podijeljena na dva dijela. Prvi dio odnosi se na radove objavljene u časopisima koje indeksira baza podataka Web of Science Core Collection. Prilikom pretraživanja baze podataka nisu pronađene sve bibliografske jedinice, stoga su dodane naknadno zahvaljujući savjetovanju s nastavnim djelatnicima. Radovi su svrstani u sljedeće kategorije: izvorni znanstveni radovi, pregledni radovi, radovi sa znanstvenih skupova objavljeni u časopisima i pisma uredniku. Klasifikacija radova napravljena je prema bazi podataka Web of Science Core Collection i ponekad se razlikuje od klasifikacije u časopisu. Unutar svake kategorije radovi su poredani kronološki i abecedno prema prvom autoru.

Kod radova autora članova kolaboracija uvršteni su prvi i zadnji autor na radu i autori s afilijacijom Fizičkog odsjeka Prirodoslovno-matematičkog fakulteta Sveučilišta u Zagrebu, kao i oni s afilijacijom „Croatia“. Razlog ovakvom načinu zapisivanja radova je mnogobrojno autorstvo te pregledniji način zapisa. ALICE kolaboracija broji preko 1000 autora, STAR kolaboracija oko 360, a PHENIX kolaboracija od 450 do 600. Iako u bibliografskim zapisima nisu popisani svi (strani) autori kolaboracija, oni se mogu naći na poveznicama koje se nalaze uz zapise.

U drugom dijelu nalaze se radovi objavljeni u časopisu Fizika A i Fizika B. Svi radovi poredani su kronološki i abecedno prema prvom autoru. Uz svaki rad u zagradama nalazi se naziv kategorije rada. Kategorije radova u ovom dijelu bibliografije su: izvorni znanstveni radovi, radovi sa znanstvenih skupova i pisma uredniku. U ovu bibliografiju uvršteni su radovi od 2009 do 2011. jer su tada časopisi Fizika A i Fizika B prestali izlaziti.

Većina radova sadržava DOI (Digital Object Identifier), trajnu poveznicu na sažetak rada na stranici izdavača ili na cjeloviti tekst. Mrežnim stranicama pristupano je putem navedenih poveznica tijekom izrade bibliografije, početkom 2019. godine. Radovi kojima nije pridružena poveznica, nisu mrežno dostupni.

Bibliografija sadrži kazalo autora s naznakom rednih brojeva obrađenih radova. Kod autora koji su objavljivali pod više od jednim oblikom imena u kazalu je izabran jedan oblik za jedinstvenu odrednicu, a za ostale je izrađena uputnica, kako bi se na istom mjestu okupili radovi jednog autora.

Na kraju bibliografije nalazi se abecedni popis svih časopisa zastupljenih u bibliografiji.

Gordana Stubičan Ladešić

# RIJEČ PROČELNIKA FIZIČKOG ODSJEKA

Znanstveno-istraživački rad u području prirodnih znanosti, polje fizika, na Fizičkom odsjeku Prirodoslovno-matematičkog fakulteta Sveučilišta u Zagrebu tradicionalno je snažno zastupljen, a sinergijom znanstvene i nastavne djelatnosti stvoreno je jedinstveno poticajno okruženje u Republici Hrvatskoj koje omogućuje stjecanje novih znanja iz fizike na visokoj razini usporedivoj s vodećim sveučilištima u svijetu. Znanstvena aktivnost na Fizičkom odsjeku posljednjih godina doživljava velik napredak dobrim dijelom zahvaljujući brojnim kompetitivnim znanstvenim projektima snažno financiranim ne samo iz domaćih izvora nego i znatnim potporama iz programa Europske unije koji omogućuju kadrovsko i infrastrukturno unapređenje znanstvene djelatnosti na Fizičkom odsjeku. Time su stvoreni uvjeti za postizanje brojnih vrhunskih znanstvenih rezultata objavljenih u najuglednijim međunarodnim znanstvenim časopisima, čime Odsjek unapređuje svoju prepoznatljivost u široj međunarodnoj znanstvenoj zajednici.

Bibliografija Fizičkog odsjeka izrađena je u spomen i zahvalu svim djelatnicima Fizičkog odsjeka koji su svojim predanim znanstvenim i nastavnim radom te izvrsnim znanstvenim radovima gradili i unapređivali djelatnost Fizičkog odsjeka na najvišoj razini. Bibliografija je također izrađena s namjerom upoznavanja šire javnosti sa značenjem i opsegom znanstveno-istraživačkog rada na Fizičkom odsjeku. U bibliografiji su popisane znanstvene publikacije Odsjeka u razdoblju od 2009. do 2018. godine, uključujući radove objavljene u časopisima indeksiranim u bazi podataka Web of Science Core Collection, kao i radove objavljene u časopisima Fizika A i Fizika B, zaključno s 2011. godinom kada su ti časopisi prestali izlaziti. Knjiga predstavlja posebno vrijedan pregled aktivnosti na Fizičkom odsjeku, svjedoči o uspješnom znanstvenom radu, kao i snažnoj integraciji naših istraživača s brojnim vodećim sveučilištima i znanstvenim institucijama u svijetu. Kvaliteta objavljenih znanstvenih radova razvidna je ne samo iz činjenice da su mnogi od njih objavljeni u najuglednijim međunarodnim znanstvenim časopisima nego je potvrđena i visokom citiranošću većeg broja radova koji su dostigli zavidnu prepoznatljivost u međunarodnoj znanstvenoj zajednici. Upravo u navedenom razdoblju Fizički odsjek posebno se istaknuo radovima u prestižnim znanstvenim časopisima izdavača Nature, American Physical Society (APS) i dr., čime je znatno pridonio i statusu Sveučilišta u Zagrebu na međunarodnim ljestvicama rangiranja sveučilišta. U navedenom razdoblju između ostalog započinj u aktivnosti i na dva iznimno važna projekta Fizičkog odsjeka koji već od samog početka snažno utječu na znanstvenu djelatnost na Odsjeku. To su: Znanstveni centar izvrsnosti za kvantne i kompleksne sustave te reprezentacije Liejevih algebri i Centar za napredna istraživanja kompleksnih sustava. Oba projekta financirani su iz strukturnih fondova Europske unije.

Osobito mi je zadovoljstvo najljepše zahvaliti autorici knjige Gordani Stubičan Ladešić, voditeljici knjižnice na Fizičkom odsjeku, na inicijativi za izradu sveobuhvatne bibliografije Fizičkog odsjeka u posljednja tri desetljeća, pri čemu ova bibliografija predstavlja treći volumen. Bez velikog angažmana i entuzijazma naše voditeljice knjižnice ovo djelo ne bi bilo moguće ostvariti. Također zahvaljujem svim djelatnicima Odsjeka koji su pridonijeli sadržaju i kvaliteti ove bibliografije. Posebno zahvaljujem recenzentima prof. dr. sc. Matku Milinu i doc. dr. sc. Nikoli Poljaku na pažljivom pregledu i sugestijama, čime je postignuta visoka kvaliteta ove knjige, za koju se zasigurno može ustvrditi da predstavlja identitet i potvrdu izvrsnosti znanstvene djelatnosti Fizičkog odsjeka u posljednjih deset godina.

Prof. dr. sc. Nils Paar  
Pročelnik Fizičkog odsjeka  
Prirodoslovno-matematičkog fakulteta  
Sveučilišta u Zagrebu



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