

Update from Croatia



Budimir Kliček
Ruđer Bošković Institute, Zagreb,
on behalf of Croatian JUNO group



JUNO EU-AM, Ferrara, Italy
24 Oct 2022

Remote talk

Croatian JUNO group

- **PDZ+RBI**

- JUNO member since Jan 2020
- two institutions
 - Department of Physics, Faculty of science, University of Zagreb (PDZ)
 - <https://www.pmf.unizg.hr/phy/en>
 - Ruđer Bošković Institute (RBI)
 - <https://www.irb.hr/eng>
- unfortunately PDZ have decided to leave the group
 - many thanks to Nikola Poljak for being there at the start of our JUNO journey

People

- Budimir Kliček (RBI), JUNO IB member since July 2022
 - experimental neutrino physics, detector simulation and reconstruction
 - OPERA (PhD), ESSnuSB(+), ENUBET, JUNO
 - <https://orcid.org/0000-0002-5163-8085>
- Manojit Ghosh (RBI) – our newest member, welcome!
 - neutrino phenomenology
 - ESSnuSB(+), JUNO, ...
 - <https://orcid.org/0000-0003-3540-6548>

Involvement in JUNO

- The original idea was to start helping with the detector assembly and perhaps go on to simulation and analysis
 - this, however, did not work out
- Manojit has recently joined and expressed a very strong interest to contribute to the phenomenology efforts
 - started following the weekly phys/sim meetings
 - contacted the Jülich group to see if there are opportunities for collaboration

Funding

- **Currently we have no confirmed funding**
- Funding for travel (i.e. shifts) was granted pre-covid (at the start of 2020), but then withdrawn
- Now the situation is more complicated:
 - quite different global situation than early 2020
 - extra funding needed due to the common fund
- We do have an informal positive feedback from a funding agency, but are still waiting for a formal decision
- We are exploring alternative avenues for funding
 - different FA, specialized grants, ...
- **Situation is uncertain and will take time to resolve**

Future plans

- **Secure funding**
 - common fund and travel are a priority
 - extend to dedicated PhD students and postdocs, if possible
- **Get more involved with JUNO**
 - started with the phenomenology
 - extend to other areas if/when our resources (funds and manpower) allow

We are looking forward to a successful and fruitful
collaboration!