



Nuclear Astrophysics Town Meeting

NuPECC

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(Conveners)

Objectives and working groups

- Collect key ideas for the next NuPECC Long Range Plan on Nuclear Astrophysics
- Working groups and coordinators
 - Nuclear Theory for Nuclear Astrophysics (Matthias Hempel, Stefan Typel, Nils Paar)
 - Stable, gamma and neutrons beams (Gyürky György, Rene Reifarth, Nicolas de Seréville)
 - Radioactive beams (Beyhan Bastin, Cesar Domingo Pardo, Anu Kankainen)
 - Observations and data for Nuclear Astrophysics (Roland Diehl, Peter Hoppe, Christof Vockenhuber)
 - Stellar, supernova and mergers models; chemical evolution (Raphael Hirschi, Friedrich Röpke, Cristina Chiappini)
- NuPECC liaisons: Pierre Descouvemont, María José García Borge, Alex Murphy

Milestones in LRP preparation

- **March 11 and 12:** Status report by NuPECC liaison
- **June 17 and 18:** First LRP draft (available beginning of June) and presentation by conveners
- **October 7 and 8:** Final report (available end of September), presentation and discussion with conveners
- Six reports (Hadron Physics, Strong-Interaction Physics, Nuclear Structure and Reactions, Nuclear Astrophysics, Symmetries and Fundamental interactions, Applications and Societal Benefits) will be available at NuPECC website
- **January 11-13, 2017:** LRP presentation at Town Meeting (GSI, Darmstadt)

Outline meeting

- Presentations by different working groups on current challenges and future prospects in nuclear astrophysics (today and tomorrow morning)
- Break up discussion session (tomorrow 11:00-12:30)
- Reports from each working group (tomorrow 14:00)
 - Key science quests to be covered in the LRP
 - Suggestions for figures and boxes
 - Priorities and recommendations for the LRP
- Try to think bold and beyond your particular interests
- We are doing a service to the whole community

Thanks for your contributions