

Policy statement

Name, Surname

David Field

Title and laboratory

Professor, Department of Physics and Astronomy, University of Aarhus

I would like to stand for election in order to represent the following community:

- Diluted matter

Describe in few lines your scientific activity related to synchrotron radiation.

I have worked on ACO, Super-ACO, Daresbury and ASTRID (Aarhus) in the field, very largely, of gas phase molecular physics but also some condensed phase work. My area of research is in electron-molecule collisions using VUV synchrotron radiation to create beams of very high resolution electrons. I am the scientific director of ISA, the laboratory which runs ASTRID, a European Facility (presently part of ELISA/CECILIA). I am also heavily involved in guiding the scientific programme for ASTRID2, a third generation high brightness low energy source (including top-up) designed for molecular physics, biophysics, materials science which is presently under construction.

Also a few words on your intended future action in the representative committee.

Quite a number of the applications which are submitted to the diluted matter committee (PRC1), of which I am presently a member, fit into the category of laboratory astrophysics. I have for many years had an active research group in astronomy and astrophysics and I therefore intend – as I have very much in the past – to make a significant contribution is assessing these astrophysically related projects since I have special knowledge in this area. It is very important that laboratory physicists appreciate what astronomers are looking for (and for astronomers to appreciate what is being measured) and I have acted and intend to act in the future to further this.

I am rather familiar with the beamlines and end-stations involved and I have refereed a wide range of applications. I have taken a detailed interest in some areas, e.g polarisation studies (e.g. examiner for recent Nahon thesis) and also the Nice group (Meierhenrich), who work on ASTRID. SOLEIL has created a fascinating international community in dilute matter around the facilities and I always embrace with enthusiasm the opportunity to learn about and attempt to rank proposals in this field.

These are only suggestions and feel free to express yourself
Please send it back by email, at the following address: useroffice@synchrotron-soleil.fr