Enabling Research 2015: call for referees

16 June 2014

A single list of competencies is used in the spreadsheet form. The following indicative competencies for each topic area is for information.

1. Exhaust and plasma-wall interaction

3-D plasma effects
Atomic and molecular physics
Data analysis/statistics
Diagnostics (specify)
Laboratory plasma experiments
Magnetic configurations
Materials: experiments/analysis
Materials: plasma facing
Materials: theory/modelling
MCF experiments
Modelling codes - author
Modelling codes - user
Numerical techniques incl HPC

2. Turbulence, transport, confinement

3-D plasma effects
Atomic and molecular physics
Data analysis/statistics
Diagnostics (specify)
Laboratory plasma experiments
MCF experiments
Modelling codes - author
Modelling codes - user
Numerical techniques incl HPC
Turbulence theory/modelling

3. MHD, disruptions and fast particle physics

3-D plasma effects
Data analysis/statistics
Diagnostics (specify)
Disruption physics
Fast ion physics
Magnetic configurations
MCF experiments
Modelling codes - author
Modelling codes - user
Numerical techniques incl HPC
Plasma stability

4. Technology and systems (the science/engineering)

Computer technology
Control
Data analysis/statistics
Diagnostics (specify)

Engineering analysis
Fuelling systems
H&CD: EC
H&CD: IC
H&CD: LH
H&CD: NB
Joining techniques
Manufacturing techniques
MCF experiments
Nuclear physics
Numerical techniques incl HPC
Remote handling/robotics
Superconducting magnets/materials
Tritium in materials
Tritium technology

5. Structural and high-heat flux materials

Materials engineering
Materials production
Materials: ceramics
Materials: experiments/analysis
Materials: ODS
Materials: plasma facing
Materials: steels
Materials: theory/modelling
Materials: tungsten
Modelling codes - author
Modelling codes - user
Numerical techniques incl HPC

6. Functional materials

Coating materials
Insulators under irradiation
Joining techniques
Materials: breeder/multiplier
Materials: experiments/analysis
Materials: theory/modelling
Tritium in materials

7. Inertial fusion

ICF: Fast ignition
ICF diagnostics (specify)
ICF experiments
ICF plasma physics (specify)
ICF: Laser plasmas
ICF: Lasers (high energy)
ICF: Other compression technologies
ICF: Shock ignition
Modelling codes - author
Modelling codes - user