BSC researchers code for Europe?s energy future

This week, BSC researchers Mervi Mantsinen and Xavier Sáez are at the EUROfusion Code Camp hosted by the Institute of Plasma Physics in Prague (IPP Prague). Along with 36 participants from all over Europe, they are working on the integration of different simulation codes to allow virtual experiments using supercomputers, which will help bring Europe closer to fusion energy. These include simulating the transport of plasma, the gas of charged particles which forms the basis of fusion energy.

BSC's central role in the supercomputing support for this crucial project has also been confirmed this week, with Xavier Sáez having been officially selected to form part of the EUROfusion High Level Support Team, which provides support to scientists in the EUROfusion consortium for the development and optimisation of codes to be used on the dedicated Helios supercomputer located at IFERC-CSC in Rokkasho, Japan. Among other areas, the team supports scientists to adapt their software codes to parallel systems, improving the performance of existing codes and identifying algorithms and/or mathematical library routines.

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