

## Karlsruher PDE-Seminar

# Mathematical modeling and numerical simulation for magnetic fusion

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Magnetic fusion is an option for a clean and sustainable production of energy. An international experiment called ITER is being build in the south of France to verify the feasibility of this approach. However for its success there are still many open physics questions to which mathematicians can contribute by investigating the relevant models and providing tools for their robust and efficient numerical simulation.

After reviewing the basic models, some recent results on approximate kinetic models in a large magnetic field and their efficient numerical approximation will be addressed.

**Termin:** Donnerstag, 21. Juni 2012, 17:30 Uhr

**Ort:** 1C-03, Allianz-Gebäude 05.20

**Gastgeber:** Die Dozenten des Schwerpunkts Partielle Differentialgleichungen