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Title: Trap your alphas: fast particle motion in fusion plasmas

Speaker: Dr. Alena Gogoleva, researcher at UC3M

When: 2020-11-11 16:00:00

Abstract: One of the main difficulties to attain economically viable magnetically controlled thermonuclear fusion reactors is the confinement of alpha particles. In toroidally shaped fusion devices with a non-uniform magnetic field, alpha particles with small parallel velocity become trapped between areas of the high field, bouncing between reflection points, that might result in non-zero radial average drifts and their losses. This talk aims to highlight the link between the alpha particle transport and the confining magnetic field with an emphasis on the trapped particle characterization.

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