



Contribution ID: 75

Type: **Lecture**

Particle-in-cell simulations for Nanofusion

Wednesday 7 September 2022 16:00 (30 minutes)

Recently laser induced fusion a spin-off from heavy ion collisions was proposed, where implanted nanoantennas regulated and amplified the light absorption in the fusion target [L.P. Csernai et al., *Physics and Wave Phenomena* 28 (3), 187-199 (2020)]. The theoretical part in this kind of experiments is powered by plasma simulations, here, we will present the behaviour of nanoantennas built in a particle-in-cell environment. Using a simple kinetic model we will study the nanoantenna's lifetime and absorption properties both in vacuum and different mediums as well.

Is this abstract from experiment?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

Istvan Papp, PhD., Wigner Research Centre for Physics, Hungary

Internet talk

No

Author: PAPP, Istvan

Presenter: PAPP, Istvan

Session Classification: Workshop on Laser fusion, a spin-off from heavy-ion collisions