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## **Isochoric Heating in Multilayer Targets upon Ultra High Intensity Laser Irradiation by Density Oscillation**

*vendredi 11 mars 2022 11:50 (25 minutes)*

We will show how a multilayer target behaves under ultra high intensity laser irradiation, based on a SMILEI simulation study. We observe density oscillation, a dynamic, that has not been mentioned in plasma physics yet. It describes how neighboring layers repeatedly compress each other, causing the ion and electron density of each layer to oscillate over time. Based on that, we will show how the density oscillation affects the isochoric heating of the target.

All findings are based on SMILEI simulations, experiments are planned for the future.

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