



Contribution ID: 71

Type: **Talk**

## Minimizing losses in Laser-induced Nano-fusion

*Tuesday 3 September 2024 11:25 (25 minutes)*

The NAPLIFE nano-fusion project is running already two tasks at ELI-ALPS in Szeged Hungary. This project is unique in two aspect:

- (i) it is using resonant plasmonic nano-antennas to achieve a imultaneous, rapid and stable ignition of fusion fuel and
- (ii) to achieve a high-energy, non-thermal ignition mechanism at all dynamical stages of ignition and burning, until the start of nuclear fusion reactions.

With the specific arrangements, orientations and scheduling we will be able to avoid thermalization and thermalization losses at all stages of the ignition process in contrast to all other present fusion energy schemes.

### Internet talk

No

### Is this an abstract from experimental collaboration?

Yes

### Name of experiment and experimental site

NAPLIFE Wigner Budapest and ELI-ALPS Szeged

### Is the speaker for that presentation defined?

Yes

### Details

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

**Track Classification:** Workshops & Special Sessions: Workshop on Laser Fusion, a spin-off from heavy-ion collisions