

The poster features a circular portrait of Nicola Isernia in the upper right. To his left is a diagram of a toroidal plasma cross-section. A green shaded region represents the plasma interior, with a label  $I_{eq,i}$  and a curved arrow indicating current flow. A red shaded region represents the divertor target, with a label  $\phi_{tor}$  and a curved arrow indicating magnetic flux. A callout box contains the speaker's name, Nicola Isernia\*. The title of the talk is "Energy balance during disruptions" with the subtitle "The global energy fluxes across the wall". The date and time are listed as "Tuesday, April 27<sup>th</sup> 18:00 Prague". The live stream information is "Zoom in **LIVE** at [fusion.yt/ar](https://fusion.yt/ar)". A small note at the bottom states: "PhD candidate, Information Technology and Electrical Engineering School, University of Naples Federico II, Italy  
Consorzio CREATE, Naples, Italy". A large green button at the bottom says "OPEN ZOOM WEBINAR" with a Zoom icon.

**Nicola Isernia\***

**Energy balance during disruptions**  
The global energy fluxes across the wall

Tuesday, April 27<sup>th</sup>  
18:00 Prague

Zoom in **LIVE** at  
[fusion.yt/ar](https://fusion.yt/ar)

\* PhD candidate, Information Technology and Electrical Engineering School, University of Naples Federico II, Italy  
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**Title:** Energy balance during disruptions

**Speaker:** Nicola Isernia

**When:** 2021-04-27 18:00:00

**Abstract:** In the present talk we shall study the global energy transfer for a fusion plasma undergoing a disruption, by the means of first principles and evolutionary MHD equilibrium models. The key role of the conducting structures surrounding the device will be highlighted, giving insight in the time constants which are relevant to the global energy transfer. Reference: N. Isernia et al 2020 Plasma Phys. Control. Fusion 62 095024

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