



The poster features a circular portrait of Veronika Klevarová on the left, with a blue ring of light in the background. To the right, the title 'Anticipating disruptions: insights from COMPASS, JET, AUG and DIII-D' is displayed. Below the title, the date and time 'Wednesday, February 3<sup>rd</sup> 14:00 Prague' are shown in a green bar. Further down, it says 'Zoom in **LIVE** at **fusion.yt/ag**'. At the bottom, a green bar contains the text 'OPEN ZOOM WEBINAR' with a Zoom icon. Logos for 'FUSION' and 'FuseNet' are in the top right corner.

**Anticipating disruptions:** insights from COMPASS, JET, AUG and DIII-D

Wednesday, February 3<sup>rd</sup>  
14:00 Prague

Zoom in **LIVE** at  
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\* European Doctoral Course in Nuclear Science and Engineering Physics

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**Title:** Anticipating disruptions: insights from COMPASS, JET, AUG and DIII-D

**Speaker:** Veronika Klevarova

**When:** 2021-02-03 14:00:00

**Abstract:** Disruptions present a major challenge for high-performance discharges in ITER and tokamak-based power plants. These events are accompanied by a sudden loss of magnetic confinement and, as such, pose a considerable threat to the integrity of the fusion machine. Over the course of my PhD, I collected an extensive database of disruptive discharges from COMPASS, AUG, JET and DIII-D to study the signs of a catastrophic end in fusion plasmas. In this upcoming FusionEPTalks, I will introduce an analytical model of the rotating magnetohydrodynamic modes that appear during braking and wall locking ahead of a disruption. We will look at the steps which were taken to validate this model. You will thereby understand how several factors can influence the mode duration, a key figure for disruption prevention. The corresponding scaling law, derived from this work, yields predictions for ITER from hundreds to thousands of milliseconds. This bodes well for the timely deployment of a mitigation strategy.

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