



## Physical Sciences Seminar

# Signatures of Majorana zero-modes in a fusion experiment and beyond

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In most cases, the signatures of the Majorana zero-modes (MZMs) in class D systems (e.g. in topological superconductors) can be mimicked by the sub-gap states with energy close to zero (so-called Andreev levels). I will demonstrate it on the example of the Majorana fusion experiment that is believed to be an easier way to demonstrate the non-Abelian statistics of Majoranas as compared to braiding. After explaining the fundamental underlying reason of why it happens, I will propose the dynamical signature that is the defining property of non-Abelian anyons and that can discriminate against accidental Andreev levels.

**Tuesday, November 9, 2021 11:00am - 12:00pm**

Heinzel Seminar Room / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.