


Nick McGreivy

A tutorial on automatic differentiation for scientific design: practical, elegant, and powerful

Tuesday, March 9th
18:00 Prague

Zoom in **LIVE** at
fusion.yt/al

* PhD candidate at Princeton University, USA

OPEN ZOOM  WEBINAR

[Click for the last updated version](#) | [Click to Add to Calender](#)

[Click to Join via ZOOM](#) Password: 700EFB48

Title: A tutorial on automatic differentiation for scientific design: practical, elegant and powerful

Speaker: Nick McGreivy

When: 2021-03-09 18:00:00

Abstract: Automatic differentiation (AD) is a numerical technique for computing the derivative of a function specified as a computer program. Although AD was invented decades ago, it wasn't until the recent interest in machine learning and the associated development of high-quality automatic differentiation frameworks that the benefits of AD in physics were more widely recognized. In this tutorial, I introduce AD. By the end of the tutorial, you will hopefully understand the fundamentals of how AD works in theory and how it is used in practice. For a short, 5-minute introduction to AD, feel free to read this <https://twitter.com/NMcgreivy/status/1351706692317138945?s=20> and this <https://twitter.com/NMcgreivy/status/1286057985987563525?s=20>.

Email: fusionep-talks@egyplasma.com

Website: fusionep-talks.egyplasma.com