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【307】 Data Analysis for the PSI Neutron Electric Dipole Moment Experiment

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The neutron's electric dipole moment is a probe sensitive to a broad range of CP violating physics beyond the standard model. However, a nonzero measurement remains elusive, despite successive measurements performed worldwide since 1951 improving in sensitivity by over 6 orders of magnitude. The most recent measurement took data from 2015-2016 at the ultracold neutron source at the Paul Scherrer Institute, and is set to publish in the coming months the first improvement since 2006 in the sensitivity of this measurement. I will present the experiment, the data analysis methodology and progress towards the publication of the new result.

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Author: AYRES, Nicholas (ETH Zurich)

Presenter: AYRES, Nicholas (ETH Zurich)

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