



Contribution ID: 66

Type: **Talk**

## Gradient Flow of the Weinberg Operator

*Thursday 1 August 2024 09:20 (20 minutes)*

We will present latest results on the gradient flow of our Weinberg three-gluon operator and its mixing with the topological term. This will allow us to combine our calculation of neutron electric dipole moments (nEDM) due to the lattice Weinberg operator with our previous results on the nEDM due to the topological term to constrain beyond-the-standard model contributions to the Weinberg operator.

**Primary author:** BHATTACHARYA, Tanmoy (Los Alamos National Laboratory)

**Co-authors:** BHATTACHARYA, Shohini (Los Alamos National Laboratory); Dr CIRIGLIANO, Vincenzo (University of Washington); GUPTA, Rajan (Los Alamos National Lab); Dr MEREGHETTI, Emanuele (Los Alamos National Laboratory); PARK, Sungwoo (Lawrence Livermore National Laboratory); Dr YOO, Jun-Sik (Los Alamos National Laboratory); Dr YOON, Boram (NVIDIA)

**Presenter:** BHATTACHARYA, Tanmoy (Los Alamos National Laboratory)

**Session Classification:** Tests of fundamental symmetries

**Track Classification:** Tests of Fundamental Symmetries