



Contribution ID: 345

Type: **Poster**

## **Applications of Gradient flow to Non-perturbative renormalization of quark bi-linears**

*Tuesday, July 26, 2016 8:00 PM (1 hour)*

Results of a non-perturbative determination of RI-MOM renormalization constants for smeared quark bi-linear operators are presented. These operators are smeared using the gradient flow, enabling the smearing scale to be fixed in physical units. As a result, smeared matrix elements are free of power divergences in the lattice spacing, which allows easier control of the continuum limit of these matrix elements. Potential applications to calculations of twist-2 matrix elements are discussed.

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**Session Classification:** Poster

**Track Classification:** Hadron Structure