



Contribution ID: 343

Type: **Poster**

## Renormalization of parton distribution functions and their moments

*Tuesday, 24 June 2014 18:10 (2 hours)*

Lattice QCD calculations of parton distribution functions have so far been restricted to only their first few Mellin moments. Broken rotational symmetry on the lattice introduces unavoidable power divergent mixing of lattice twist-2 matrix elements of different spin that obscures the continuum limit. Here I discuss new options that either avoid power divergent mixing or allow us to perform the subtractions that are needed in order to obtain higher moments.

**Primary author:** ORGINOS, Kostas (College of William and Mary / JLab)

**Co-author:** Dr MONAHAN, Christopher (College of William and Mary)

**Presenters:** Dr MONAHAN, Christopher (College of William and Mary); ORGINOS, Kostas (College of William and Mary / JLab)

**Session Classification:** Poster session

**Track Classification:** Hadron Structure