

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



Contribution ID: 122

Type: **not specified**

## Combined analysis of charm-quark fragmentation-fraction measurements

*Tuesday, April 12, 2016 4:30 PM (15 minutes)*

A summary of measurements of the fragmentation of charm quarks into a specific hadron is given. Measurements performed in photoproduction and deep inelastic scattering in  $e+p$ ,  $pp$  and  $e+e^-$  collisions are compared, using up-to-date branching ratios. Within uncertainties, all measurements agree, supporting the hypothesis that fragmentation is independent of the specific production process. Compared to individual measurements, the averaged fragmentation fractions have significantly reduced uncertainties. Implications of results for other physical quantities are considered.

**Primary author:** Dr ZENAIEV, Oleksandr (DESY)

**Co-authors:** Dr VERBYTSKYI, Andrii (Max-Planck-Institut für Physik); Dr LISOVYI, Mikhailo (Physikalisches Institut der Universität Heidelberg)

**Presenter:** Dr ZENAIEV, Oleksandr (DESY)

**Session Classification:** WG4 Heavy Flavours

**Track Classification:** Heavy Flavours (Charm, Beauty and Top)