Open charm sensitivity to large-x **gluons**

C. Weiss, LDRD Project "Nuclear gluons with charm at EIC," Meeting 13-Jan-16





- Integrand localized in x' around lower limit ax
- Heavy quark production probes large-x' gluons "almost locally"

EIC User Group Meeting Highlights

- Great interest in gluonic structure and nuclear PDFs
- Expect increased detector R&D to develop specific capabilities
- Report on nuclear gluon project [Slides]
- Nuclear PDF study by BNL group: T. Ullrich et al. [Slides] Impact of F₂(charm) pseudodata on EPS09 nuclear PDFs
 Open charm strongly constrains on large-x gluons
 Should be confirmed, refined: charm reconstruction, differential measurements