

1154-62-2504

Jeremy L Thompson* (jeremy.thompson@colorado.edu), **Valeria Barra**, **Jed Brown**,
Yohann Dudouit and **Oana Marin**. *Preconditioning with BDDC and FDM for High Order
Finite Elements with libCEED*. Preliminary report.

Matrix-free representations of high-order finite element operators are less expensive than sparse matrices, both with respect to the FLOPs needed for evaluation and the memory transfer needed for a matrix-vector multiply (Received September 18, 2019)