S_{2n} residual: UNEDF1 vs AME2016 10 nuclei count: 588 8 rms_old: 0.878994 rms_new: 0.885568 6 improve: -0.006574 S_{2n, th} - S_{2n, exp} (MeV) 4 2 0 -2-6 octupole -8 old -1020 40 60 100 120 0 80 140 160 **Neutron Number**