1057-14-232 **Tudor Dimofte*** (tdd@theory.caltech.edu), Caltech 452-48, 1200 E California Blvd, Pasadena, CA 91125, and **Sergei Gukov** and **Yan Soibelman**. *Quantum Wall Crossing in $\mathcal{N} = 2$ Gauge Theories.*

We consider refined and motivic wall crossing formulas in $\mathcal{N} = 2$ supersymmetric gauge theories with gauge group $SU(2)$ and $N_f < 4$ matter hypermultiplets in the fundamental representation. These theories provide an excellent testing ground for the recent proposal that, for BPS invariants, "refined = motivic." (Received January 23, 2010)