

List of Publications:

1. Argha Banerjee and R. Shankar: Estimating the avalanche contribution to the mass balance of debris covered glaciers, *The Cryosphere Discuss.*, 8, 641-657, doi:10.5194/tcd-8-641-2014, (2014).
2. Argha Banerjee, and R. Shankar: On the Response of Himalayan glaciers to climate change, *Journal of Glaciology* 59 (215), 480 (2013).
3. Sambuddha Sanyal, Argha Banerjee, Kedar Damle, and Anders W. Sandvik: Antiferromagnetic order in systems with doublet $S_{\text{tot}}=1/2$ ground states, *Phys. Rev. B* **86**, 064418 (2012) .
4. Sambuddha Sanyal, Argha Banerjee, and Kedar Damle: Vacancy-induced spin texture in a one-dimensional $S=1/2$ Heisenberg antiferromagnet, *Phys. Rev. B* **84**, 235129 (2011).
5. Argha Banerjee, Kedar Damle, and Fabien Alet: Impurity spin texture at the critical point between Néel-ordered and valence-bond-solid states in two-dimensional SU(3) quantum antiferromagnets, *Phys. Rev. B* **83**, 235111 (2011)
6. Argha Banerjee, Kedar Damle, and Arun Paramekanti: Néel to staggered dimer order transition in a generalized honeycomb lattice Heisenberg model, *Phys. Rev. B* **83**, 134419 (2011).
7. Argha Banerjee and Kedar Damle: Generalization of the singlet sector valence-bond loop algorithm to antiferromagnetic ground states with total spin $S_{\text{tot}} = 1/2$, *J. Stat. Mech.* P08017 (2010)
8. Argha Banerjee, Kedar Damle, and Fabien Alet: Impurity spin texture at a deconfined quantum critical point, *Phys. Rev. B* **82**, 155139 (2010).
9. Argha Banerjee, Sergei V. Isakov, Kedar Damle, and Yong Baek Kim: Unusual liquid state of hard-core Bosons on pyrochlore lattice, *Phys. Rev. Lett.* **100**, 047208 (2008).
10. Argha Banerjee et al.: Fiber optic sensing of liquid refractive index , *Sensors and Actuators, B: Chemical*, **123** (1), pp. 594-605 (2007).