

### Publications (Last Five Years)

1. **Three stage vacuum system for ultralow temperature installation**, N.K. Das, J. Pradhan, Z.A. Naser, B.C. mandal, A. Roy, P. Kumar, C. mallik and R.K. Bhandari, Jour. Of Phys.: Conf. series, 390 (2012) 012055
2. **Development of a high vacuum sample preparation system for helium mass spectrometer**, P. Kumar, N.K. Das, C. Mallik and R.K. Bhandari, Jour. Of Phys.: Conf. series, 390 (2012) 012056
3. **Development of helium purification system using pressure swing adsorption**, Nisith Kr. Das, Pradeep Kumar, C. Mallik and R.K. Bhandari, Current Science, 103, No. 6, 631-634, (2012)
4. **Design and performance of a 4He -evaporator at <1.0K**, N.K. Das, J. Pradhan, Z.A.Naser, A. Roy, B.C. Mandal C. Mallik and R.K. Bhandari, Cryogenics, 52, 679-684, (2012)
5. **Design of still for dilution fridge**, BidhanChandra Mandal, MdZamalAbdul Naser, NisithKumar Das, Jedidiah Pradhan, Aninday Roy, Chaturanan Mallik and Rakesh Kumar Bhandari, Indian Jr. of Cryogenics, 38, No 1-4, 160-165, (2013)
6. **Thermo-dynamical process simulation of dilution refrigerator**, Jedidiah Pradhan, Nisith Kr. Das, Alok Chakraborty, Cryogenics, 57 (2013) 158
7. **Transient phenomena initiating phase transition in dilution refrigeraotr**, Jedidiah Pradhan, Nisith K. Das, Alok Chakraborty, Cryogenics, 63 (2014) 69
8. **Indigenous development of a millikelvin refrigerator at VECC, Kolkata**; Nisith Kr. Das, Jedidiah Pradhan, Bidhan Ch. Mandal, Anindya Roy, Z. A. Naser, Pradeep Kumar, Current Science, 112, 5 (2017), 1023 - 1028