

List of publications and presentations

A. List of publications based on the work reported in this thesis:

1. Hadamcik, E., Sen, A., Levasseur-Regourd, A. C., **Roy Choudhury, S.**, Lasue, J., Gupta, R., and Botet, R. (2014). Dust coma of comet C/2009 P1 (garradd) by imaging polarimetry. *Meteoritics & Planetary Science*, 49(1):36-44.
2. **Roy Choudhury, S.**, Hadamcik, E., and Sen, A. (2014). A study of comet 78P/Gehrels by imaging polarimetry. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 146:444-451.
3. **Roy Choudhury, S.**, Hadamcik, E., and Sen, A. K. (2015). Study of some comets through imaging polarimetry. *Planetary and Space Science*, 118:193-198.

B. List of presentations in national seminars:

1. **Roy Choudhury, S.**, and Sen, A; oral presentation on “Imaging polarimetry of comets C/2009 P1 Garradd and 78P/Gehrels” in UGC sponsored National Seminar on “Emerging Areas of Research & Development in Chemical and Physical Sciences in North East India” 16-18 October, 2012; organised by Dept of Physics and Chemistry, S.S college, Hailakandi.

2. **Roy Choudhury, S.**, and Sen, A; oral presentation on “Activities of some comets at different phase angles” in National Seminar on “Frontiers of Research in Physical Sciences” 19-21 September, 2014; organised by Dept of Physics, Karimganj college, Karimganj.

C. List of presentations in international conferences:

1. **Roy Choudhury, S.**, Hadamcik, E., and Sen, A. K.; poster presentation on “Imaging Polarimetry of Comets C/2009 P1 (Garradd), 78P/Gehrels, 22P/Kopff and asteroid 5 Astraea” in “Electromagnetic Light Scattering XIV” ; 17-21 June 2013; organised by Centre National de la Recherche Scientifique (CNRS), Université de Lille, Lille, France.

2. **Roy Choudhury, S.**, Hadamcik, E., and Sen, A. K.; poster presentation on “Polarimetric imaging of some comets at different phase angles” in “Asteroids, Comets, Meteors (ACM- 12th conference)” in Helsinki, 30 June - 4 July, 2014; organised by ACM Scientific Organising Committee in Helsinki, Finland.

3. **Roy Choudhury, S.**, Hadamcik, E., and Sen, A. K.; poster presentation on “Study of some comets at different phase angles by imaging polarimetry” in “Interstellar Dust Molecules and Chemistry (IDMC-2014)” ; December 2014; organised by Tezpur University, Tezpur.

D. List of participations in national seminars:

1. National Seminar on “Frontiers of Research in Physics” ; 22-24 December, 2011; organised by Dept of Physics, Karimganj College, Karimganj, in collaboration with Dept of Physics, Assam University, Silchar.

2. National Seminar on “Dust in Astrophysics” ; 31 Jan - 2 Feb, 2012; organised by Dept of Physics, Assam University, Silchar.

E. List of participations in workshops:

1. IUCAA sponsored workshop on “Astrophysical Observation and Data Analysis” ; 5-7 June, 2012; organized by Tezpur University, Tezpur.
2. IUCAA sponsored workshop on “Infrared Astronomy” ; 19-21 March, 2013; organized by Tezpur University, Tezpur.

F. List of participations in schools:

1. “Winter School on Gravitation & Cosmology” ; 2011; organized by Department of Physics, Assam University, Silchar.
2. “Science Academies’ Refresher Course in Theoretical Physics” ; 2-15 December, 2013; organized by Department of Physics, Assam University, Silchar.
3. 33rd Winter School in Theoretical Physics “Exoplanets” ; 28 December, 2015 - January 8, 2016; organized by Hebrew University, Jerusalem, Israel.