

# Report

## Symposium GRAPPA @ 5:

### Celebrating five years of Astroparticle Physics in Amsterdam

(October 16-18, 2017)

GRAPPA stands for Gravitation AstroParticle Physics Amsterdam, and is a multidisciplinary centre of excellence in astroparticle physics. GRAPPA started in 2012 with the appointment of five new faculty members, who formed the scientific organising committee of the symposium to celebrate GRAPPA's anniversary.

Often the various branches of detecting cosmological signals is summarised as "Multimessenger astrophysics". The symposium reflected this broadness of astroparticle physics with excellent invited speakers (see the poster attached), covering theory and observations of dark matter, cosmic rays, and gravitational waves.

Apart from the excellent quality of the speakers the symposium was marked by the announcement of a new gravitational wave event, which was simultaneously observed by other telescopes. The announcement was called "The dawn of multi-messenger astrophysics", which fitted the theme of the symposium exactly. The Nikhef part of the announcement was attended by all symposium members, since the meeting was held in the Nikhef complex. Because of all the fuzz around the discovery, invited speaker Nergis Mavalvala, could not leave the US and gave her presentation through a live stream, which went flawlessly and was in fact a highlight of the symposium.

Finally, it is worth mentioning that there were two public events associated with the symposium. One was at NEMO consisting of an evening discussion on astroparticle physics with the public, in which J. P van der Schaar, Patrick Decowski, and J. Vink participated. On October 17, there was a very well attended presentation in the Artis Planetarium, with Govert Schilling as moderator and two invited speakers (J. Monroe and H. Peiris) as presenters.