

# Colloquium

**SFB 956**

Conditions and Impact of Star Formation

**10.12.2013**

Tuesday 11:00 am

**I Physikalisches Institut Köln**

KOSMA room

Zülpicher Straße 77 | 50937 Köln

**Areg Mickaelian**

Byurakan Astrophysical Observatory (BAO)

## Multiwavelength Studies of Active Galaxies

A review of recent multiwavelength (MW) studies of active galaxies will be given. The activity types of 779 Markarian galaxies have been revised based on available SDSS spectra and a MW catalogue of Markarian galaxies has been created. Such MW catalogue is being created for all bright ( $m < 17$ ) AGN as well, which will include their gamma-ray, X-ray, UV, optical, IR and radio data, altogether 38 photometric measurements, giving a large possibility for comparative studies of their SEDs. Activity types for 83 Byurakan-IRAS Galaxies (BIG) have been determined from SDSS DR7-DR9. We have cross-correlated X-ray (ROSAT) and radio (NVSS, FIRST) catalogues and obtained a sample of high probability bright AGN (Blazars, QSOs, Seyferts), which will be observed for spectroscopic identification. On the other hand, we have cross-correlated NVSS and FIRST and obtained a sample of variable radio sources (having  $> 3$  sigma deviations between the two catalogues), as well as investigated the radio structure of the NVSS sources having multiple associations in FIRST (central source, radio lobes and possible jets).

