[구ST-09] The Akari two-color diagrams for AGB stars

Kyung-Won Suh & Young-Joo Kwon
Dept. of Astronomy and Space Science, Chungbuk National University

From the Akari observational data, we have cross-identified a major portion of AGB stars listed in the catalog of AGB stars presented by Suh & Kwon (2009). We have used the Akari-IRC (Infrared Camera) PSC (Point Source Catalogue; about 850,000 sources at 9 and 18 μm) and Akari-FIS (Far-infrared Surveyer) BSC (Bright Source Catalogue; about 440,000 sources at 65, 90, 140 and 160 μm) as well as the IRAS and NIR observational data to make various meaningful two-color diagrams for AGB stars. We compare them with the theoretical models with various dust shell model parameters and chemical compositions.

[구ST-10] An improved catalog of oxygen-rich AGB stars

Young-Joo Kwon & Kyung-Won Suh
Dept. of Astronomy and Space Science, Chungbuk National University

We have made an improved catalog of O-rich AGB stars in our Galaxy from the sources listed in the Infrared Astronomical Satellite (IRAS) point source catalog (PSC). We compile the lists of previous works with various verifying processes. We have removed 115 stars from the previous catalog of Suh & Kwon (2009) and added 958 more stars. The improved catalog contains 3036 O-rich AGB stars. The content of the revised catalog can be divided into 3 groups based on the verifying processes: OH/IR stars, SiO maser stars, and other detecting methods. We compare the new catalog with the previous catalog on the infrared two-color diagrams for the large sample of O-rich AGB stars. And we discuss differences among the 3 groups of the improved catalog and identification processes of some stars in exceptive cases.