

[포 ST-05] A Statistical Approaching about Characteristics of Galactic Open Clusters from the perspective of Blue Straggler Formation Environments

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Blue Straggler Stars(BSS) affect their host star cluster in various parameters like color, dynamics, etc. For this reason, it is important to know how to relate BSS frequency and evolution of their host stellar system. To statistical study about global properties of open clusters as the environments of BSS formation, we use three catalogues - (1) two galactic open clusters catalogues including BSS candidate, (2) Milky Way Star Cluster (MWSC) survey data. Then, we compare with the data of two BSS catalogues for test of the result of Marchi et al. 2006. We also investigate the radial mass distribution in open cluster, because it is possible that changing the gradient of radial mass distribution cause increasing the BSS frequency. When we group the open cluster into having BSS or not and other criteria, the groups show slight discrepancies, but we show some important results.

ALMA/JCMT

[포 AJ-01] Status of ASTE Focal Plane Array Development

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As an enhancement to increase mapping speed of the current ALMA TP array, development of a focal plane array system working at ultra wide frequency range of 275-500 GHz with GPU-based software spectrometers has been carried out since

2015. Major progresses on such component development as wideband DSB mixers, a profiled corrugated horn, receiver optics, LO system and GPU-based spectrometer are reviewed with brief introduction to implication of ALMA 2030 for technical implementation.

과학관과 천문학교육

[포 AE-01] Astronomy with Cambodian Children (캄보디아 어린이들을 위한 천문학 교육 프로그램)

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90년대 후반에 내전이 끝난 캄보디아는 태국이나 베트남에 비해 정치, 경제적으로 안정되지 못한 상황이다. 어린이들에 대한 교육환경 역시 좋지 않아, 기초과학을 접할 수 있는 기회가 적을 뿐 아니라, 대도시를 벗어난 곳에서는 과학교육이 거의 이루어지지 못하고 있는 현실이다. 수도 프놈펜에서 북서쪽, 차편으로 4시간 거리에 있는 뿌삿시 크로암에서 몬테소리 유치원을 운영하고 있는 한국봉사단의 요청으로 한국천문학회는 2016년 상반기에 관심 있는 학회 구성원들을 중심으로 천문학 교육 프로그램 지원단을 구성하여 6월말부터 25일까지 2주 동안 현지 어린이들을 대상으로 천문학 교육 프로그램을 수행한 바 있다. 모두 50여명의 초, 중등 학생들이 참여하여 성황리에 마무리된 캄보디아 교육 프로그램의 성과와 시사점, 앞으로의 계획 등을 소개하고자 한다.

외부은하/우주론

[포 GC-01] How Does the Bar Affect AGN-Driven Quenching within Late-type Galaxies

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