

XXI Meeting of Physics 2021



Contribution ID : 88

Type : **key notes**

OAUNI detections of Supernovae

Friday, 17 December 2021 15:00 (60)

We report photometric detections of supernovae events gathered at UNI Astronomical Observatory located at the central peruvian Andes. Several events were detected on the last years, including Type-Ia and Type-II supernovae. We show the special calibration process used to quantify the proper magnitude associated to each event. When multicolor photometry is available, color-color diagnostic diagram were used to compute the supernova time post maximum brightness. In additional, our photometry was used to construct light curves and let to compare our data with empirical supernova models. The last process was used in one case to infer the stretch parameter in order to confirm previous classification. This project is supported by UNI-VRI and Concytec (grants 102-2015, 133-2020).

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Session Classification : keynotes

Track Classification : Astronomy and Cosmology