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The Galactic globular M30 as a laboratory for adaptive optics

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We present optical and NIR photometry for the Galactic globular M30. We focussed our attention on this globular because it is a post core collapsed, this means that the innermost regions display a cusp in density distribution. Moreover, M30 was observed with gound- and space-based (HST) telescopes. In particular, NIR images were collected with both seeing limited NIR array (SOFI@NTT), Ground-layer-adaptive-optics (HAWK-I@VLT) and with different multi-conjugated AO systems (MAD@VLT, GEMS@GEMINI). We present several NIR color-magnitude diagrams and discuss the photometric accuracy and limiting magnitude when moving from seeing limited to AO assisted images. Moreover, we briefly outline the impact on the accuracy of proper motion measurements.

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