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MKIDs for IR, optical and X-ray astronomy

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The Mazin Lab at UC Santa Barbara develops MKID arrays for astronomical applications in the optical to IR wavelength range. I will present results from ARCONS, a 2024 pixel MKID array and the first optical MKID camera used for astronomical observations. I will further give an overview over the development and commissioning of DARKNESS and MEC, MKID cameras with 10.000 and 20.000 pixel respectively that we are developing for direct exoplanet imaging behind coronagraphs at the Hale telescope at Palomar Observatory and the Subaru telescope on Mauna Kea.

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