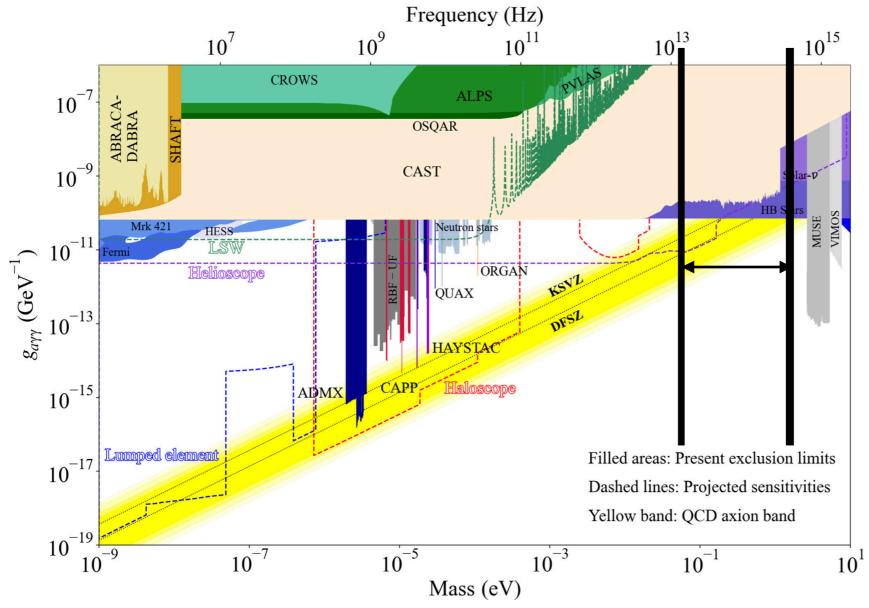
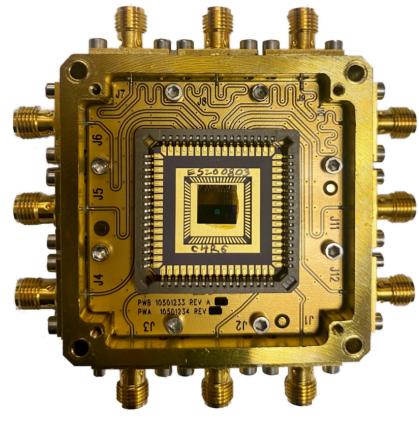
Axions with low-threshold SNSPD

Low-threshold photon detectors will play a key role in broadband axion detection



SNSPD overview: see M. Shaw's slides





SNSPD demonstrated nanowire sensitivity to 0.04 - 1 eV → mass reach

Best DCR < 1e-5 c.p.s → axions coupling sensitivity

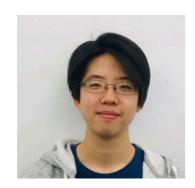
Final SNSPD to realize axion detection require challenging R&D

Axions with low-threshold SNSPD



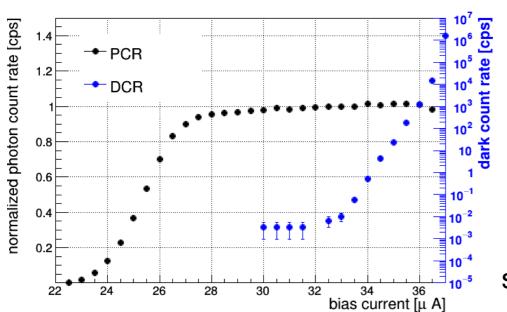


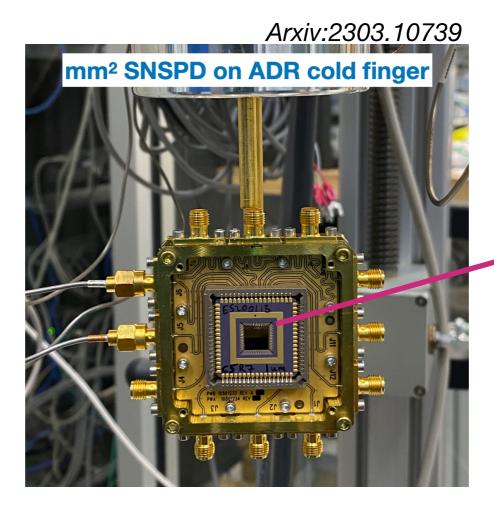
Jamie Luskin



Christina Wang

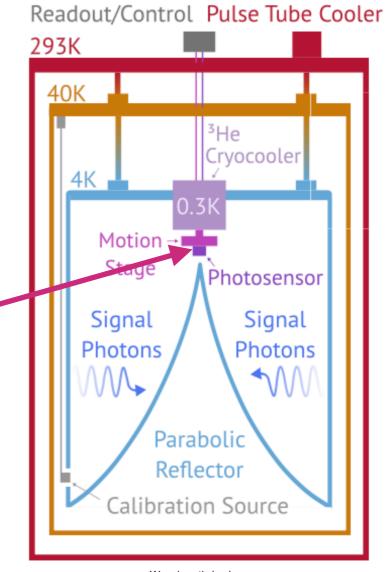


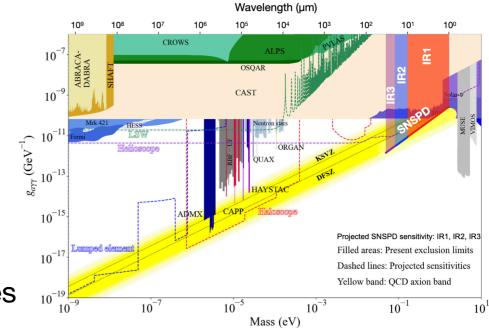




Towards new axion sensitivity

SNSPD area/channel scaling: see S. Xie's slides





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