

High temperature superconducting van der Waals heterostructures and superconducting proximity arrays.

Nicola Poccia¹, Frank Zhao¹, Hyobin Hoo¹, Young-Jae Shin¹, Svetlana Postolova², Ruidan Zhong³, Genda Gu³, Kenji Watanabe⁴, Takashi Taniguchi⁴, Valerii Vinokur⁵, Philip Kim⁶

¹*Department of Physics, Harvard University, USA*

²*Department of Physics, Novosibirsk State University, Russia*

³*Brookhaven National Labs, USA*

⁴*National Institute for Materials Science, Japan*

Email: npoccia@g.harvard.edu

We discuss here the experimental progress in high temperature superconducting van der Waals heterostructures and superconducting proximity arrays.