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**Conical structures of black and blue two-dimensional phosphorus** KAINEN UTT, Univ of Arkansas-Fayetteville, MARIO BORUNDA, Oklahoma State University, SALVADOR BARRAZA-LOPEZ, Univ of Arkansas-Fayetteville — Two-dimensional phosphorus [1,2], the most recent addition to the growing list of novel two-dimensional materials, has quickly become the focus of materials science. We create conical configurations of black phosphorus from planar structures with a disclination line [3], and the properties of these conical structures of phosphorus will be discussed here. [1] H. Liu et al. *ACS Nano* **8**, 4033 (2014). [2] L. Li et al. *Nature Nanotechnology* **9**, 372–377 (2014) [3] Y. Liu et al. *Nano Letters* ASAP. DOI: 10.1021/nl5021393 (2014)

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