## Short-range magnetic order in orbitally selective Ni-substituted FeSe<sub>0.35</sub>Te<sub>0.65</sub> single crystals Marta Z. Cieplak\*, Irina Zajcewa, Artem Lynnyk, Katarzyna Kosyl, Dariusz Gawryluk# Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; \*e-mail: marta@ifpan.edu.pl

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based superconductors (IBS) results in various electronic phases ordered phases. The role of magnetic or nematic fluctuations in superconducting (SC) pairing in IBS is a subject of intense discussions.

doped by Ni into Fe site. The crystals of this composition are located close to maximum T<sub>c</sub> in heavily Te-doped SC dome. **Transport properties combined with ARPES indicate that** substitution of Ni dopes crystals with electrons, what eliminates some of the hole pockets from Fermi level, leaving only one, originating from the  $d_{xy}$  orbital. Anomalies in magnetization are observed, clearly linked to the localization of  $d_{xy}$  orbital on presence of short-range magnetic orderings, both



