Contribution ID: 141 Type: Invited

## Superconducting gap in the pnictides –theory and ARPES

Thursday, 26 July 2012 11:45 (25 minutes)

Andrey V. Chubukov University of Wisconsin, Madison

I review recent theory works on the gap structure in Fe-pnictides and compare theory predictions with laser and Synchrotron ARPES measurements. I discuss the arguments for s++, s+-, and d-wave gaps and argue in favor of s+- gap for both moderately and strongly doped materials. I further discuss the evidence for symmetry-allowed angle variation of the s+- gap and for potential gap nodes, and suggest new ARPES experiments to verify recent theory proposals of vertical loop nodes in P-doped pnictides.

Primary author: CHUBUKOV, Andrey (University of Wisconsin, Madison)

Presenter: CHUBUKOV, Andrey (University of Wisconsin, Madison)

Session Classification: High Tc Cuprates I

Track Classification: High-Tc Cuprates