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Superconducting gap in the pnictides –theory and ARPES

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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.

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