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Pair breaking in iron-based superconductors KEVIN KIRSHENBAUM, SHANTA SAHA, TYLER DRYE, STEVEN ZIEMAK, JOHNPIERRE PAGLIONE, University of Maryland at College Park — The relative ease of crystal growth combined with the range of elements available for chemical substitution, especially on the transition metal site, has allowed for numerous studies of different iron-based superconductors. There are, however, remaining questions about the pairing symmetry in this system. We present transport scattering rate data for optimally-doped single crystals from several superconducting 122 materials and discuss the relationship between superconducting transition temperature and transport scattering rate in the context of pair breaking.

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