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Pair-breaking in iron-pnictides VLADIMIR KOGAN, Ames Lab, AMES LAB GROUP COLLABORATION — The puzzling features of the slopes of the upper critical field at the critical temperature, dHc2/dT T_c, and of the specific heat jump Delta-C T_c^3 of iron-pnictides are interpreted as caused by a strong pair-breaking. The low temperature behavior of the penetration depth will be discussed within the same framework.

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