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(avramido@math.uiuc.edu), Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA, *Convolution with approximate identities and pointwise convergence in $L_p(\mathbf{R}), p \geq 1$.*

ABSTRACT. We construct approximate identities such that convolution is pointwise good a.e. in some $L_p(\mathbf{R}), p \geq 1$ and not in others. We also will discuss related results in Lebesgue differentiation.