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Tadeusz Iwaniec (tiwaniec@syr.edu), 215 Carnegie Building, Department of Mathematics, Syracuse University, Syracuse, NY 13244-1150, Leonid V Kovalev* (lvkovale@syr.edu), 215 Carnegie Building, Department of Mathematics, Syracuse University, Syracuse, NY 13244-1150, and Jani Onninen (jkonnine@syr.edu), 215 Carnegie Building, Department of Mathematics, Syracuse University, Syracuse, NY 13244-1150. On injectivity of quasiregular mappings.

We give sharp sufficient conditions for a planar quasiregular mapping to be locally or globally injective. The conditions involve the range of the complex derivative of the mapping. (Received July 31, 2008)