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Stephen M Gagola, Jr* (gagola@math.kent.edu), Department of Mathematics, Kent State University, 1300 University Esplanade, Kent, OH 44242. *When the mapping from characters to kernels is injective.* Preliminary report.

Let G be a finite group. We completely characterize those groups for which the mapping $\chi \mapsto \ker \chi$, from irreducible characters to normal subgroups, is injective. Also considered is the situation when this mapping is injective when restricted to non-linear characters. (Received September 26, 2017)