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DISTINGUISHED SYSTEM OF COSET REPRESENTATIVES AND
 NORMAL COMPLEMENT OF A SUBGROUP OF FINITE GROUP

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1. Introduction

Suppose that H is a subgroup of the finite group G and that N is a normal subgroup of H / in symbols $N \triangleleft H \leq G$ /.

A normal subgroup K of G is a normal complement of H in G over N if $G = HK$, $H \cap K = N$.