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Locally soluble-by-finite groups with small deviation for non-subnormal subgroups

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Abstract: A group G has subnormal deviation at most 1 if, for every descending chain $H_0 > H_1 > \dots$ of non-subnormal subgroups of G , for all but finitely many i there is no infinite descending chain of non-subnormal subgroups of G that contain H_{i+1} and are contained in H_i . This property \mathfrak{P} , say, was investigated in a previous paper by the authors, where soluble groups with \mathfrak{P} and locally nilpotent groups with \mathfrak{P} were effectively classified. The present article affirms a conjecture from that article by showing that locally soluble-by-finite groups with \mathfrak{P} are soluble-by-finite and are therefore classified.

Keywords: subnormal subgroups, locally soluble-by-finite groups

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