

## Monolithic partial characters

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**Abstract.** Let  $\pi$  be a set of prime numbers,  $G$  be a  $\pi$ -separable group, and  $H$  be a Hall  $\pi'$ -subgroup of  $G$ . We prove in this note that  $H$  is normal in  $G$  and  $G/H$  is nilpotent if and only if  $\varphi(1)^2$  divides  $|G : \ker \varphi|$  for all monolithic partial characters  $\varphi \in \mathcal{I}_\pi(G)$ , where  $\mathcal{I}_\pi(G)$  is the set of irreducible partial characters of  $G$ .

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