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subdirect product of groups

Canonical name SubdirectProductOfGroups

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Synonym subdirect product Synonym subcartesian product

Synonym subcartesian product of groups

Related topic ResiduallyCalP

 $Related\ topic \qquad Direct Product And Restricted Direct Product Of Groups$

Let $(G_i)_{i\in I}$ be a family of groups. A http://planetmath.org/Subgroupsubgroup H of the http://planetmath.org/DirectProductAndRestrictedDirectProductOfGroupsdirect product $\prod_{i\in I}G_i$ is said to be a subdirect product (or subcartesian product) of $(G_i)_{i\in I}$ if $\pi_i(H)=G_i$ for each $i\in I$, where $\pi_i\colon \prod_{i\in I}G_i\to G_i$ is the i-th projection map.