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Products of small modules

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Abstract: Module is said to be small if it is not a union of strictly increasing infinite countable chain of submodules. We show that the class of all small modules over self-injective purely infinite ring is closed under direct products whenever there exists no strongly inaccessible cardinal.

Keywords: small module; self-injectivity; von Neumann regular ring

AMS Subject Classification: 16D10, 16S50

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