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Quotient spaces of the irrationals

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QUOTIENT SPACES OF THE IRRATIONALS

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This reports on joint work with E. Michael. Throughout, all spaces considered are metrisable.

Theorem. *A necessary and sufficient condition that a space X be a quotient space of the space P of irrational numbers is that X be a continuous image of P (or equivalently, that X be analytic).*

The theorem generalises to nonseparable spaces. The quotient map here cannot in general be made open, or closed, or “compact-covering”.

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