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*Remarks on Countable Rank Maps*

Let $f\colon X \longrightarrow Y$ be a function and let $\mathfrak{m}$ be an infinite cardinal. Then we say that the rank $r(f)$ of $f$ is $\leq \mathfrak{m}$ if

$$\left|\{y \in Y : |f^{-1}(y)| > 1\}\right| \leq \mathfrak{m}.$$

If $\mathfrak{m} = \aleph_0$ then $f$ is of countable rank. In this talk, some results concerning projective classes of countable rank maps will be presented.

This is a joint work with Pawel Krupski (University of Wroclaw, Poland).