1099-03-390 **Konstantinos A. Beros*** (`beros@unt.edu`), Department of Mathematics, University of North Texas, GAB 435, 1155 Union Circle, Denton, TX 76203-5017. *Co-analytic ideals on ω.*

We say that $f : \omega \to \omega$ is a *weak Rudin-Keisler map* if the domain of f is an infinite (possibly proper) subset of ω. If $\mathcal{I}$ and $\mathcal{J}$ are ideals on ω, we say that $\mathcal{I}$ is *wRK-reducible* to $\mathcal{J}$ if there is a weak Rudin-Keisler map f such that, for each $A \subseteq \omega$, one has $A \in \mathcal{I} \iff f^{-1}(A) \in \mathcal{J}$. We show that there is a wRK-complete co-analytic ideal, i.e., a co-analytic ideal to which every co-analytic ideal is wRK-reducible. The method of our proof also yields a simple proof to a theorem of Hjorth on co-analytic equivalence relations.

We will mention some analogous results for ideals on ω which belong to other projective classes. (Received February 11, 2014)

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