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Greg Oman and **Adam Salminen*** (as341@evansville.edu), 1800 Lincoln Avenue, Evansville, IN 47722. *Residually Small Commutative Rings*. Preliminary report.

Let R be a ring. Following the literature, R is called *residually finite* if for every $r \in R \setminus \{0\}$, there exists an ideal I_r of R such that $r \notin I_r$ and R/I_r is finite. In this talk, we define a commutative ring R with identity to be *residually small* if for every $r \in R \setminus \{0\}$, there exists an ideal I_r of R such that $r \notin I_r$ and $|R/I_r| < |R|$. We will discuss such rings, extending results on residually finite rings. (Received September 14, 2015)