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**Oana Veliche\*** (oana.veliche@gmail.com), 226 Pine Hill Circle, Waltham, MA 02451, and **Lars Winther Christensen** and **Janet Striuli**. *Growth of the Sequence of Bass Numbers*.

Let  $R$  be a local ring with maximal ideal  $\mathfrak{m}$  and residue field  $k = R/\mathfrak{m}$ . Compared to the sequence of Betti numbers,  $\{\text{rank}_k \text{Ext}_R^i(k, k)\}_{i \in \mathbb{Z}}$ , the sequence of invariants of the ring  $R$   $\{\text{rank}_k \text{Ext}_R^i(k, R)\}_{i \in \mathbb{Z}}$ , called *the sequence Bass numbers*, is not so well understood. In my talk I will present some recent results on the growth of the sequence of Bass numbers, over several classes of local rings. (Received August 24, 2009)