1118-13-96 **Giulio Peruginelli*** (gperugin@math.unipd.it), Dipartimento di Matematica, Via Trieste, 63, 35121 Padova, Italy, and **Jean-Luc Chabert**, Department of Mathematics, Amiens, France.

Polynomial overrings of $\mathrm{Int}(\mathbb{Z})$.

The classical ring of integer-valued polynomials $\mathrm{Int}(\mathbb{Z})$ is defined as the set of polynomials with rational coefficients which map the integers into themselves under evaluation. In this talk we will show that each ring between $\mathrm{Int}(\mathbb{Z})$ and $\mathbb{Q}[X]$ can be represented as a ring of integer-valued polynomials over a subset of the profinite completion of $\mathbb{Z}$. We also give a classification of those polynomial overrings of $\mathrm{Int}(\mathbb{Z})$ which admit a regular basis. (Received January 26, 2016)