

# KEY POLYNOMIALS, MINIMAL PAIRS AND PSEUDO-CONVERGENT SEQUENCES

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Given a valuation  $\nu$  on a field  $K$ , it is important to understand the possible extensions of  $\nu$  to  $K[x]$ , the polynomial ring in one indeterminate over  $K$ . This problem has been extensively studied and many objects have been introduced to describe such extensions. The more common of them are key polynomials, minimal pairs and pseudo-convergent sequences. In this talk we present these objects and show how they are related to each other.

**This is joint work with Mark Spivakovsky**