

# Polynomial completeness in expanded groups

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We give a survey of polynomial completeness results that apply to expanded groups, starting with the 1-affine completeness of expanded groups omitting type **2** proved by Kaarli (1978), Hagemann's and Herrmann's interpolation result for such algebras (1982), Idziak's and Słomczyńska's description of polynomially rich algebras (2001), and the description of various types of polynomial completeness in finite expanded groups by Mudrinski, Kapl, and the author (2009). We relate these results to the Compatible Function Extension Property (Kaarli, 1983).

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