

- ▶ STEFAN VATEV, *Conservative Extensions of Abstract Structures*.
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We investigate a relation, called conservative extension between abstract structures \mathfrak{A} and \mathfrak{B} , possibly with different signatures and $|\mathfrak{A}| \subseteq |\mathfrak{B}|$. We give a characterisation of this relation in terms of computably infinitary Σ_n formulae and we show that in some sense it provides a finer complexity measure than the one given by degree spectra of structures. We show that the n -th jump of a structure and its Marker's extension are conservative extensions of the original structure.