Tauberian properties for monomial asymptotic expansions

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The aim of this talk is to recall the notion of asymptotic expansions and k-summability (including the Borel-Laplace integral transformations) with respect to a monomial in an arbitrary number of variables. We provide the main properties of this notion of asymptotics, including their behavior under monomial transformations (blow-ups with two codimension centers) to obtain analog results of the Tauberian theorems for k-summability in one variable. An application to study formal solutions of certain Pfaffian systems with normal crossings will be given.