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Bernard H. Teissier* (bernard.teissier@imj-prg.fr), 73 Rue Claude Bernard, 75005 Paris, France. *Zero dimensional valuations on equicharacteristic noetherian local domains.*

A study of those valuations based, in the case where the domain is complete, on the relations between the elements of a minimal system of generators of the value semigroup or of the associated graded algebra.

The main idea is to present the ring as a quotient of a generalized power series ring instead of trying to present it "à la Kaplansky" as a subring of a generalized ring of Puiseux series.

The talk will emphasize the description of the valuation rings of Abhyankar valuations and the approximation of non-Abhyankar valuations by Abhyankar semivaluations. (Received February 01, 2018)