Bernard Teissier* (bernard.teissier@imj-prg.fr), 73 Rue Claude Bernard, 75005 Paris, France. Extensions of valuations from an excellent local domain to its completion.

I will present some of the motivations for the following conjecture: Given a zero dimensional valuation $\nu$ of an excellent equicharacteristic local domain $(R, m)$, there exist prime ideals $H$ of the $m$-adic completion $\hat{R}$ such that $H \cap R = (0)$ and the valuation $\nu$ extends to a valuation $\hat{\nu}$ of $\hat{R}/H$ with the same value group. Moreover, after a birational $\nu$-modification of $R$, one can even obtain that the natural inclusion of graded rings $\operatorname{gr}_\nu R \subset \operatorname{gr}_\hat{\nu} \hat{R}/H$ is an equality. (Received September 20, 2015)