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Hans Schoutens* (hschoutens@citytech.cuny.edu). *Extended dimensions and the spectrum of ultraproducts of Noetherian local rings.*

I will discuss a few extended dimensions, meaning that on the class of Noetherian local rings, they all give Krull dimension, but without the Noetherian assumption they may differ. I will apply this in particular to ultraproducts of Noetherian local rings, in which case these dimensions can often be calculated. (Received September 03, 2016)