

Importance of Complete ring of Qoutients

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Dear NG,

I just recently touched subjects involving Complete ring of Qoutients and I was wondering if someone could motivate me on why this is somehow important to algebraists. For reduced rings I think they contain the ring itself and that they have nice properties like being Baer and Von Neumann regular and etc. and therefore they allow us to conclude that a Baer, Von Neumann regular hull .. etc. exists for such rings (or maybe Im wrong, please correct me if so). But are there more into it? I suppose this is one of the things that would be extensively used in homology algebra, or not? Why are dense ideals so important? I would be grateful if someone could throw some words of motivation/inspiration for such rings and their constructions.

Sincerely,
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