



## Private revision in a multi-agent setting.

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In this talk, we will tackle the issue of how a particular and specified agent  $Y$  revises his/her beliefs about the world and about the other agents' beliefs when she *privately* receives new (and supposedly truthful) information. The models we consider are supposed to represent the way she personally views the world (which can then be erroneous). The announcement is privately made to the agent  $Y$  which means that the beliefs of the other agents should not change in reality. Thus there is no real dynamic aspect but everything is static, which makes the revision process very close in nature to the one classically studied in belief revision for a single agent. This process will be described and the technics employed are indeed very close in spirit to the ones of the AGM approach. Finally, in Sect. 4 we provide a constructive way to determine the revised models based on the notion of "canonical model of degree  $n$ " and show the connection between the expansion operation and the revision operation.