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Inherent limitations in 2-D rain retrieval from CMLs

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One of the main attractions in in using CMLs for hydrology is in their potential for creating 2-D near-ground rainfall maps. Since 2008, various methods have been presented for 2-D rain retrieval from CMLs and their operation has been demonstrated in different regions around the world. In this talk I will present results of our theoretical study under the IMAP project of the achievable spatial resolution that can be achieved by CML-based rainfall mapping, as well as its accuracy. In particular, we have studied the potential accuracy improvement that can be achieved when using a CML as a line rather than a point for rainfall mapping based on spatial interpolation.

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