

## **Detecting high- $z$ , intrinsically faint radio sources via cluster lensing**

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### **Abstract**

We will present the first cases of multiple imaging of faint radio sources via massive cluster lensing (A2218 - Garrett et al. 2005 and MS0451 - Berciano Alba et al. 2006). The sources are all Sub-millimetre Galaxies and the morphology of the sub-mm and radio emission is striking. The total magnification of the radio sources is  $\sim 50$  in both cases and they are intrinsically faint systems, with unlensed 1.4 GHz flux densities of a few microJy. These sources could only otherwise be detected in the radio with such significance (using current instruments) after many months of dedicated observing time. We present the SED of these sources and look forward to future studies (including the application of source reconstruction techniques) that should reveal the radio continuum (star formation) morphology of these radio sources on unprecedented (sub-kpc) scales.