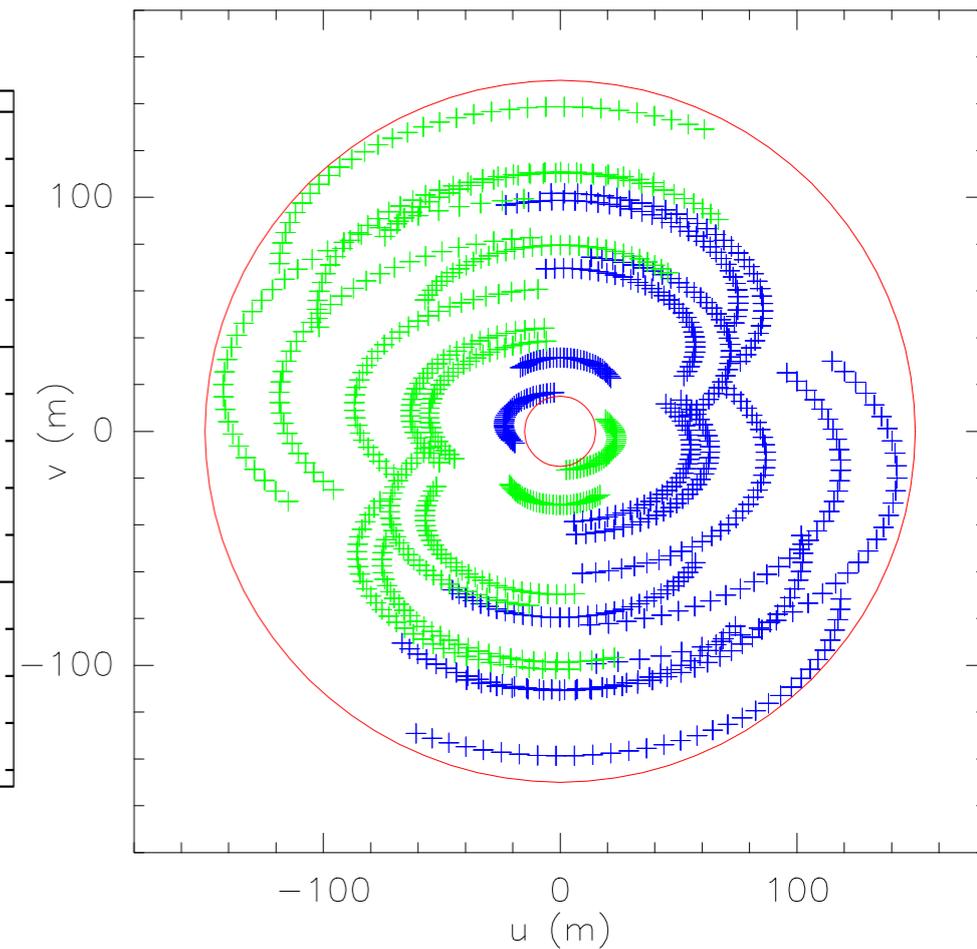
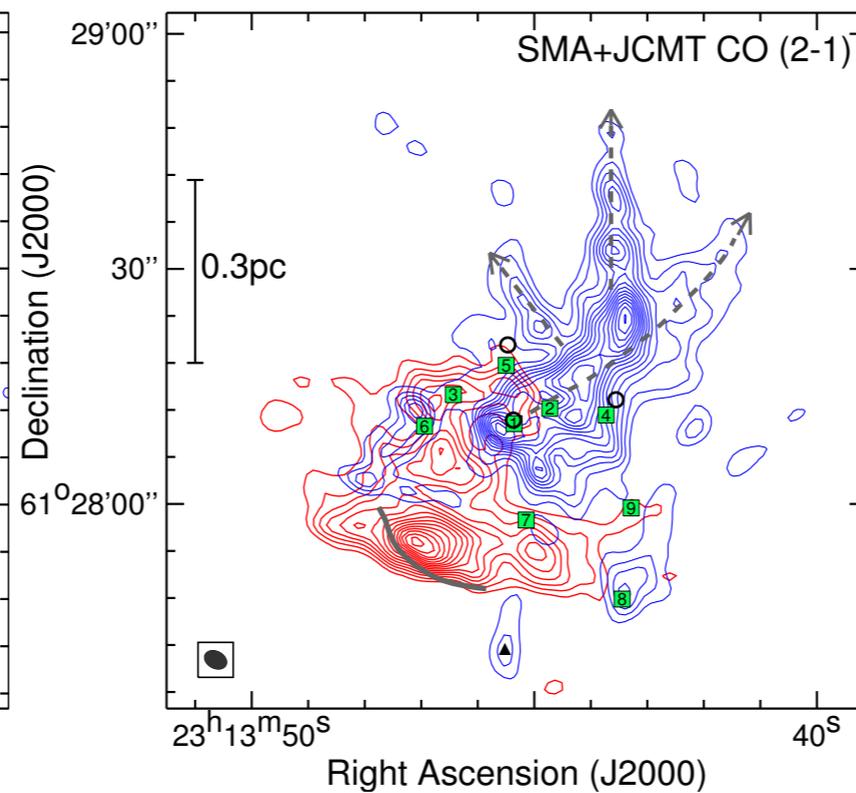
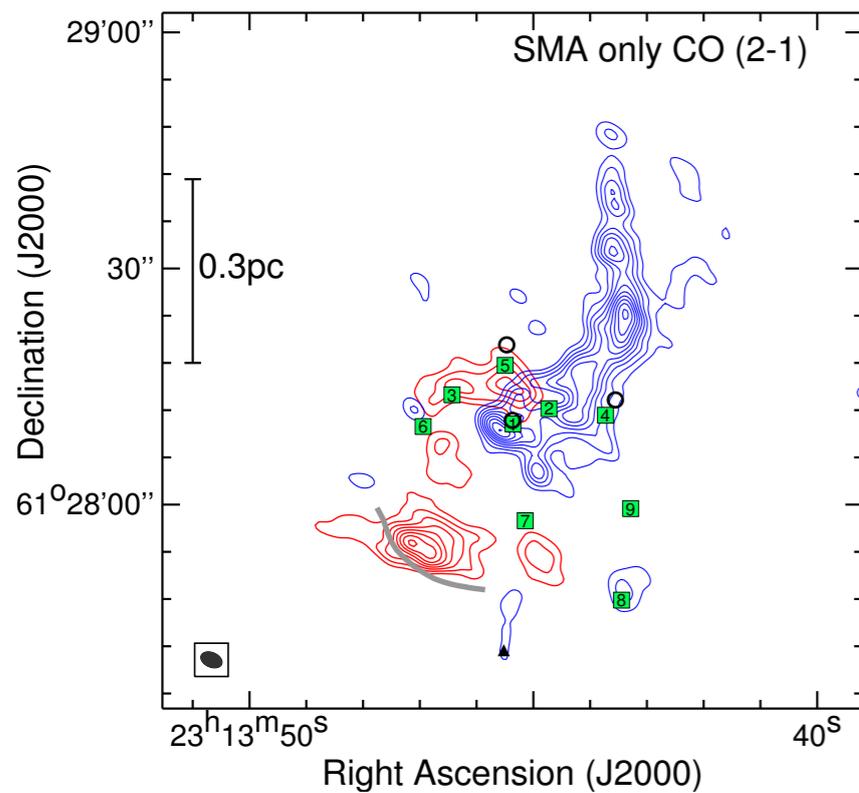


Science cases for JCMT & SMA synergies

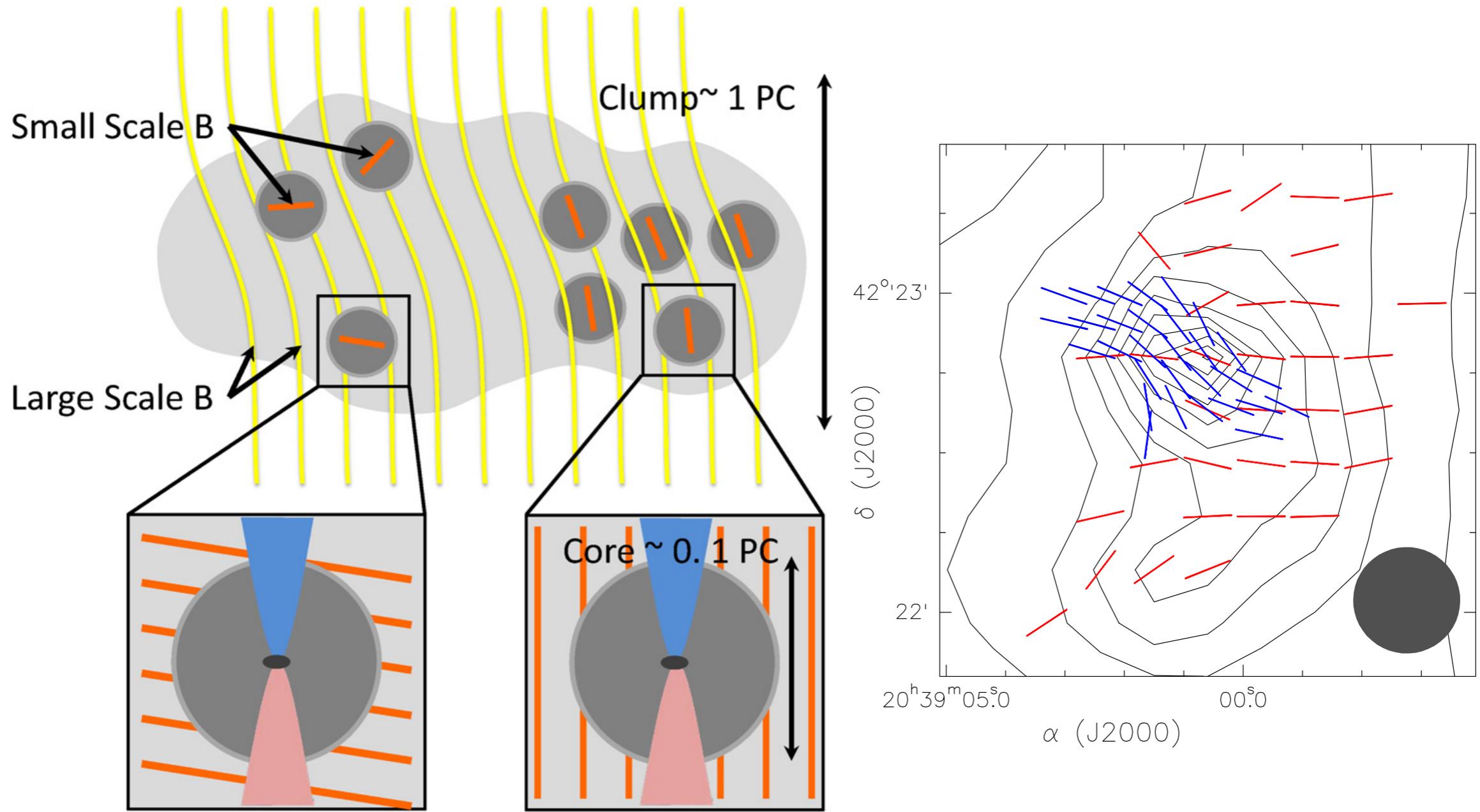
Science case 1: **short spacings & high angular resolution**

$D_{\text{JCMT}} = 2.5 \times D_{\text{SMA}}$, ideal for joint mapping



Qiu et al. (2011)

Science case 2: connecting magnetic fields from the cloud/clump ($\sim 1\text{pc}$) to core ($\sim 0.01 - 0.1\text{pc}$) scales



Zhang et al. (2014)

Science case 3: surveys of large samples / sky coverage with the JCMT (SCUBA2, HARP, ...) guide dedicated case studies with the SMA

Galactic star formation: large samples or the whole complex with the JCMT; detailed physics within dense clumps or cores with the SMA, ...

Nearby galaxies: mapping the whole galaxy and ping down into GMCs and clouds, ...

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