1077-35-744   **Vincent Jugnon*** (`vjugnon@math.mit.edu`), **Habib Ammari**, **Hyeonbae Kang**, **Mark Asch** and **Lili Guadarrama Bustos**. *Transient wave imaging with limited-view data.*

We consider for the wave equation the inverse problem of identifying locations of point sources and dipoles from limited-view data. Using as weights particular background solutions constructed by the geometrical control method, we recover classical imaging algorithms by appropriately averaging limited-view data. We show both analytically and numerically that if one can construct accurately the geometric control, then one can perform imaging with the same resolution using limited-view as using full-view data. (Received September 12, 2011)