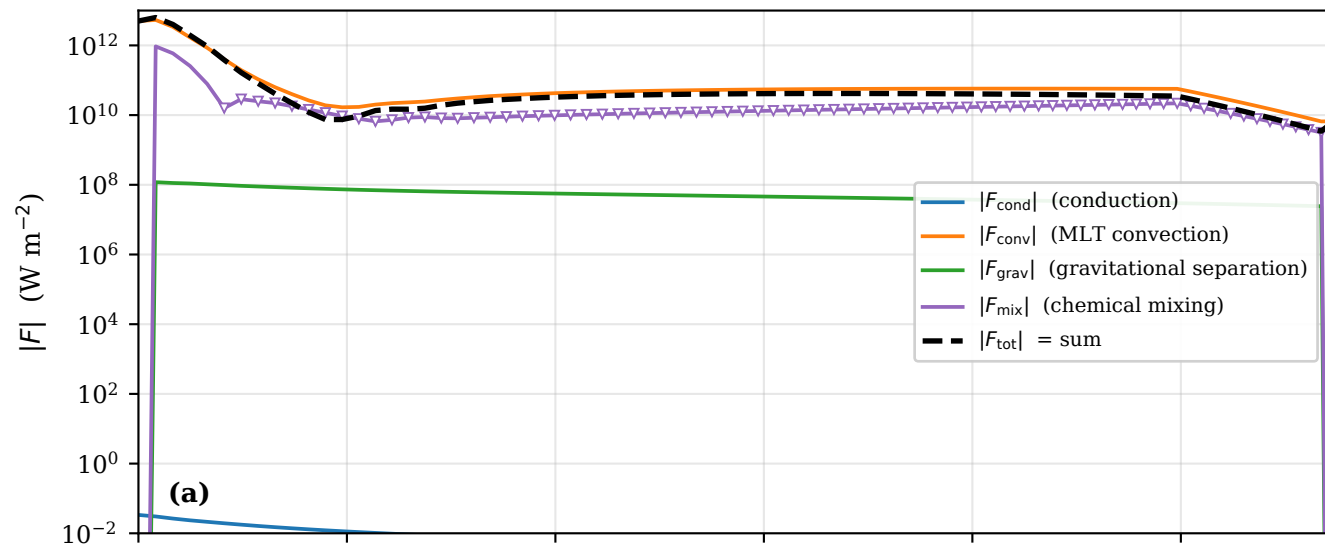


Heat flux decomposition (mushy state,  $\phi \approx 0.5$ ). Open triangles mark cells where the signed flux is negative.



Internal volumetric heat sources at staggered nodes

