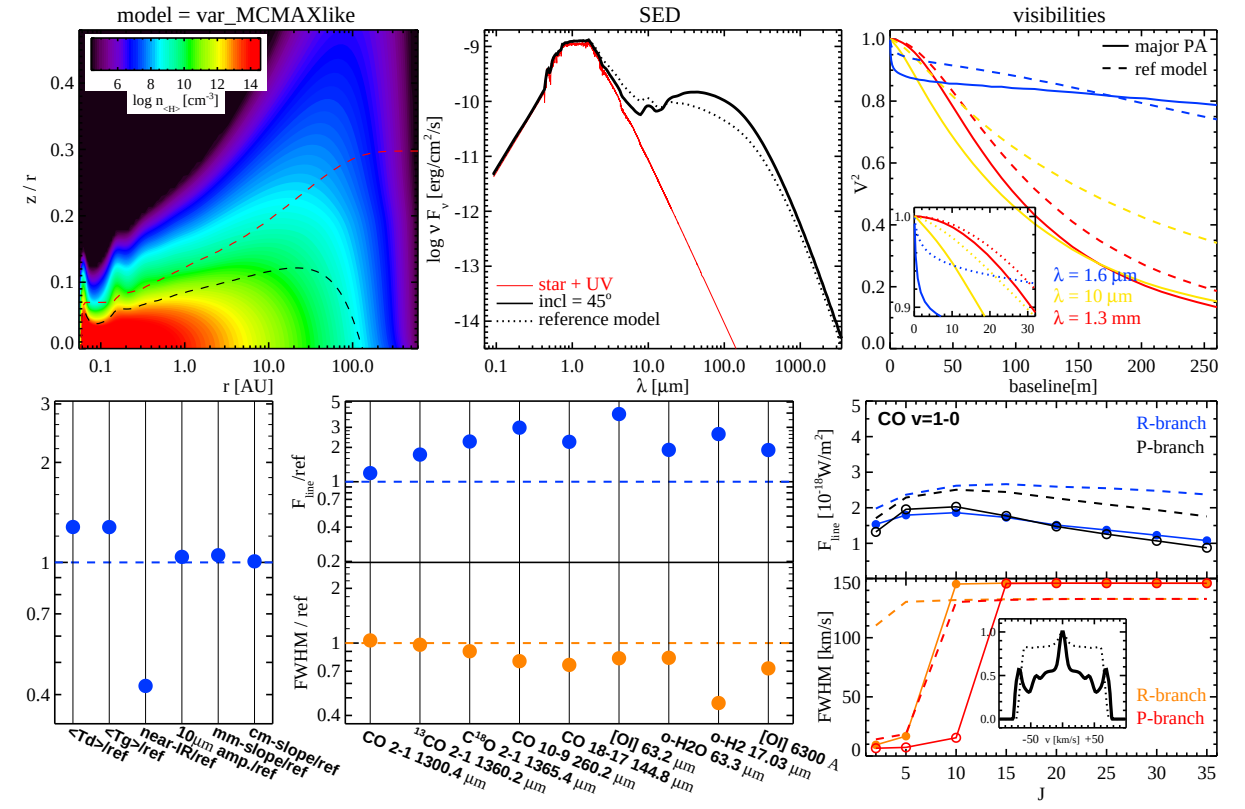
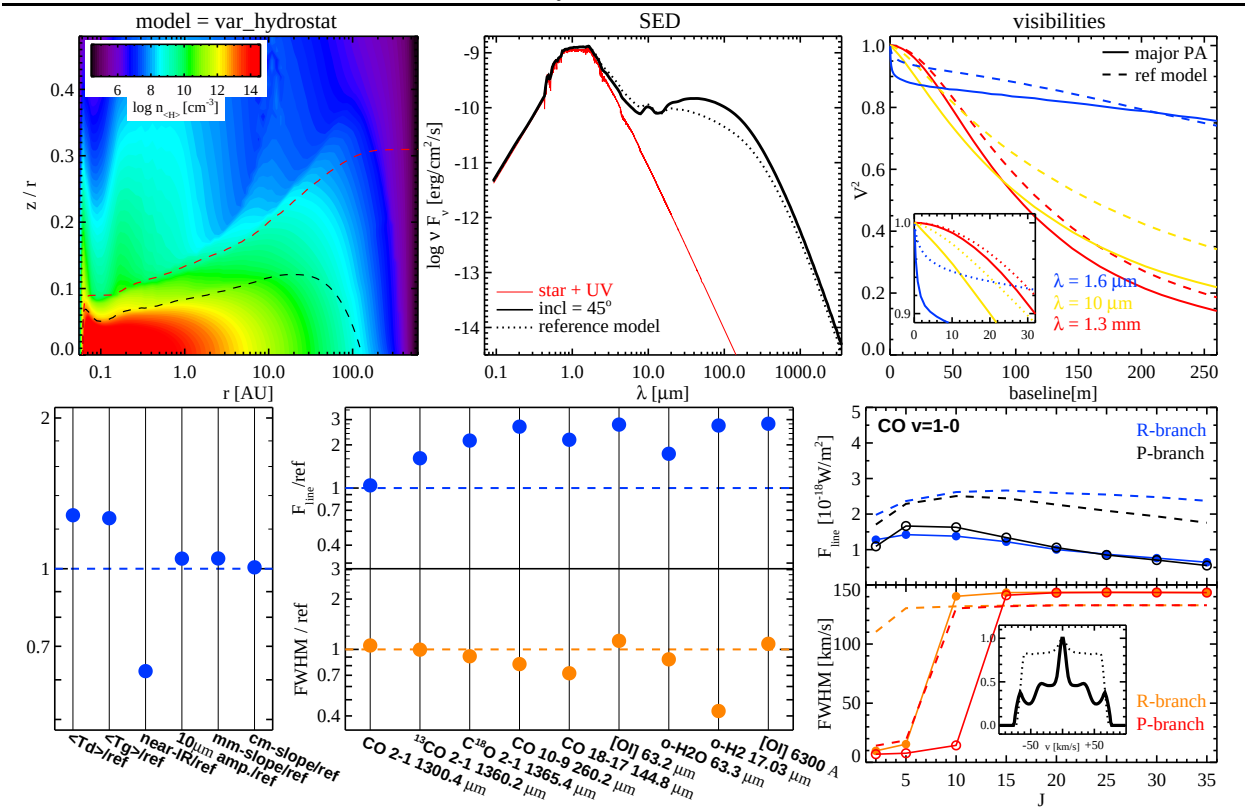
simplified hydrostatic model



full hydrostatic model