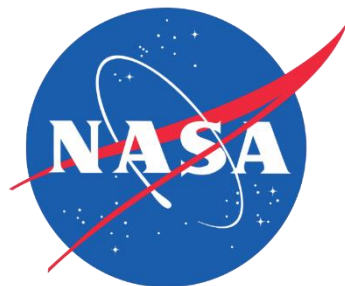


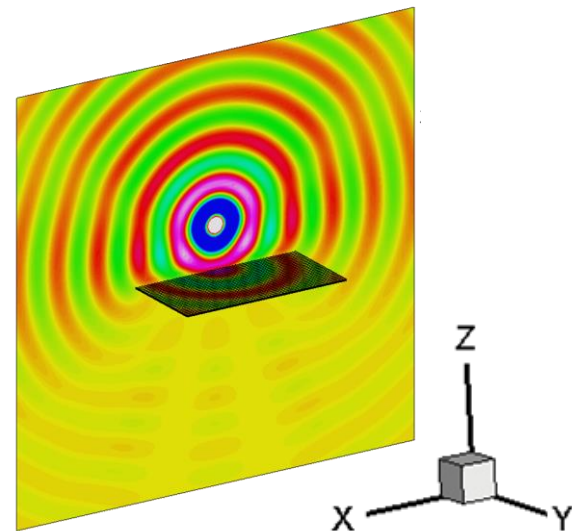
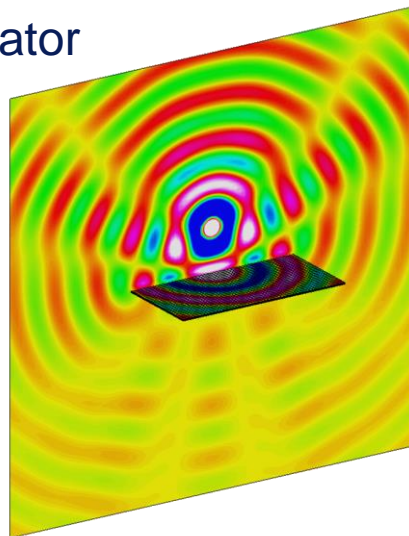
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Contour plots of the frequency-domain solutions for a rigid body [left] and soft body [right].



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PhD Work: Time-Domain Fast Acoustics Solver

Time-Domain Solvers

- Allow for simulation & study of broadband sources & time-domain transient signals
- Allow for scattering solutions at all frequencies to be obtained within a single computation
- Coupled with nonlinear computational fluid dynamics simulation of noise sources more naturally
- Time-domain boundary integral equations have an intrinsic numerical instability & carry a high computational cost

