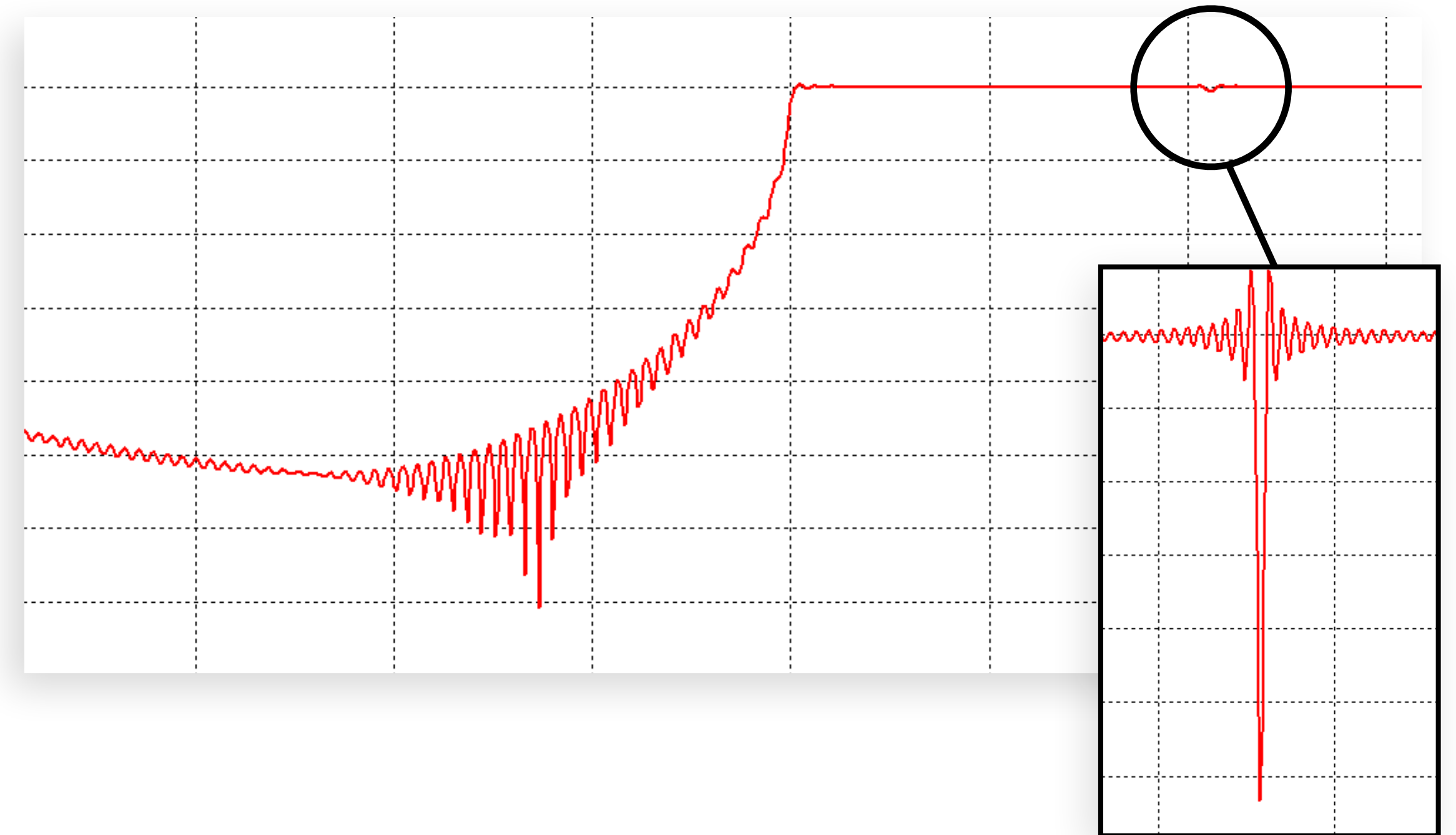
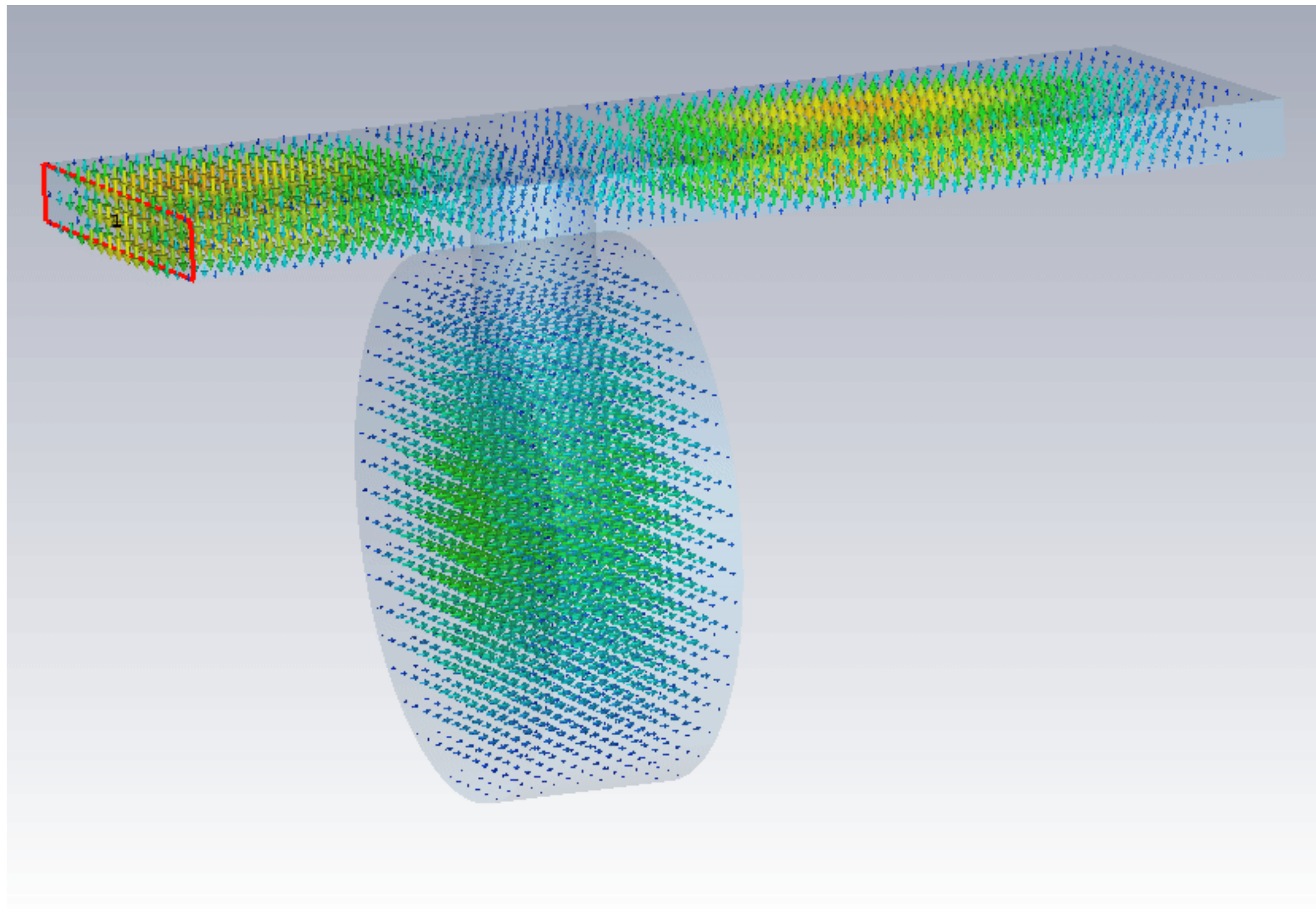


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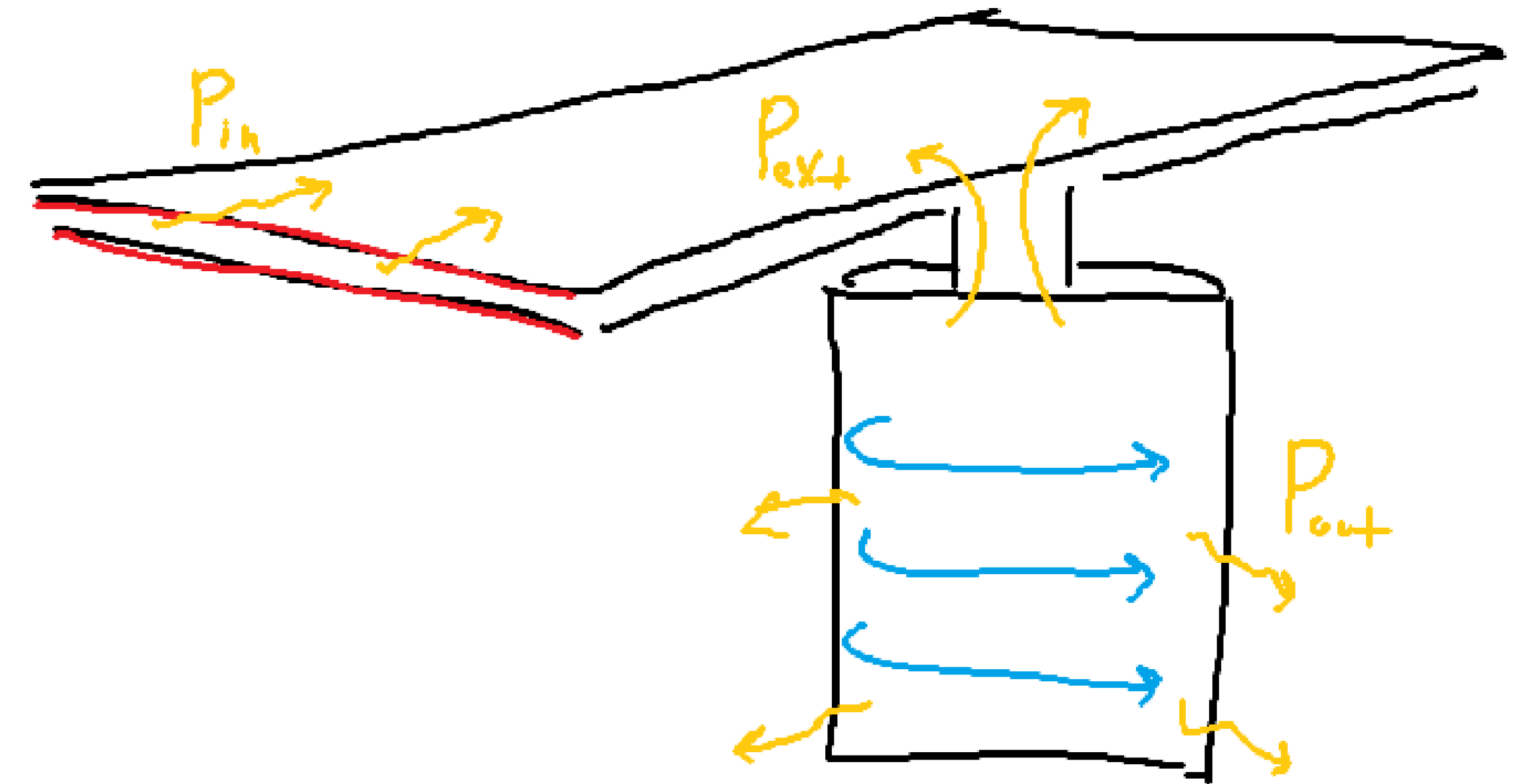
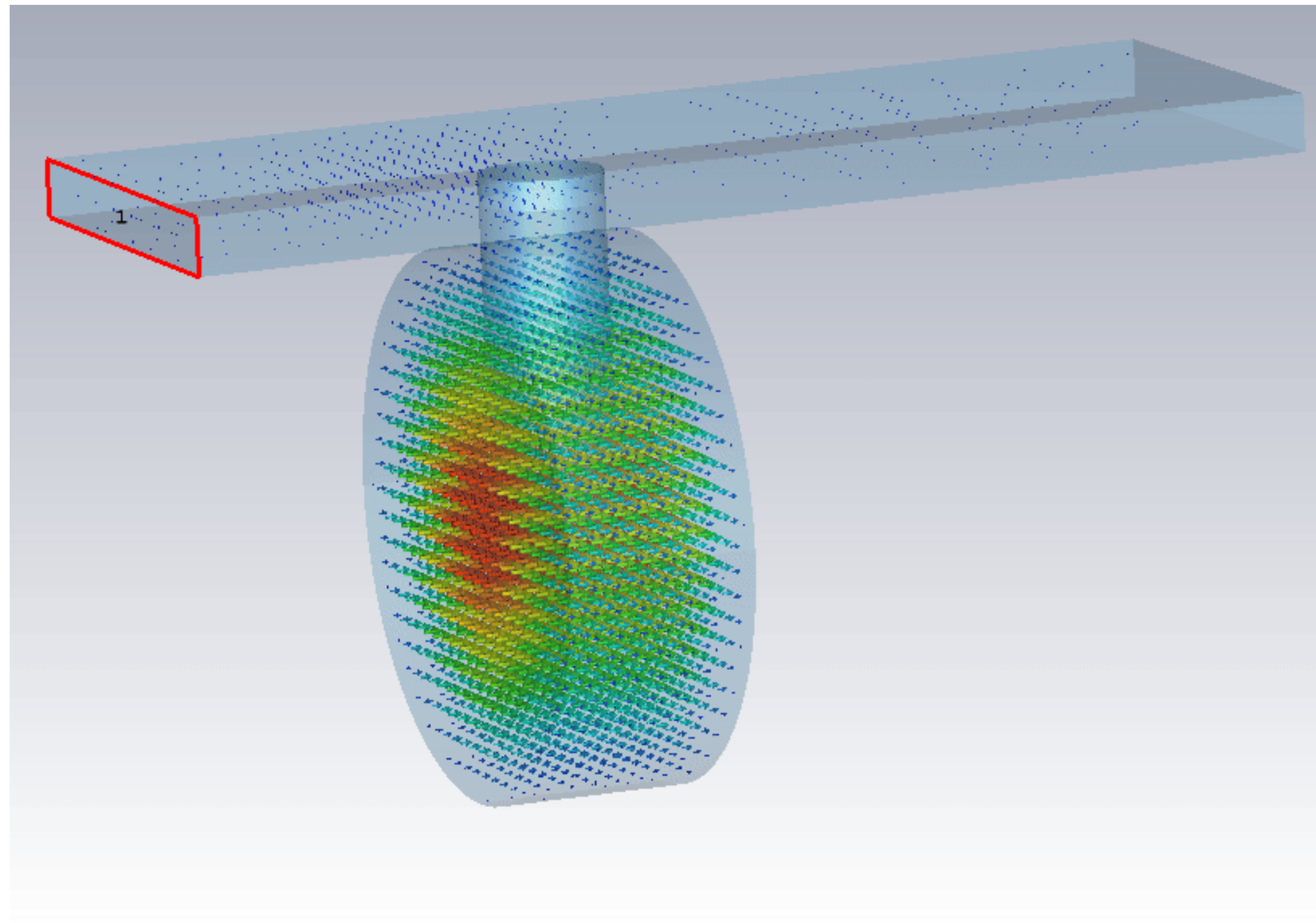
Time-Domain Analysis



- Time-domain analysis is used to study the transmission and reflections of a range of frequencies as defined by the user.
- This type of analysis is much slower!

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Eigenmode Analysis

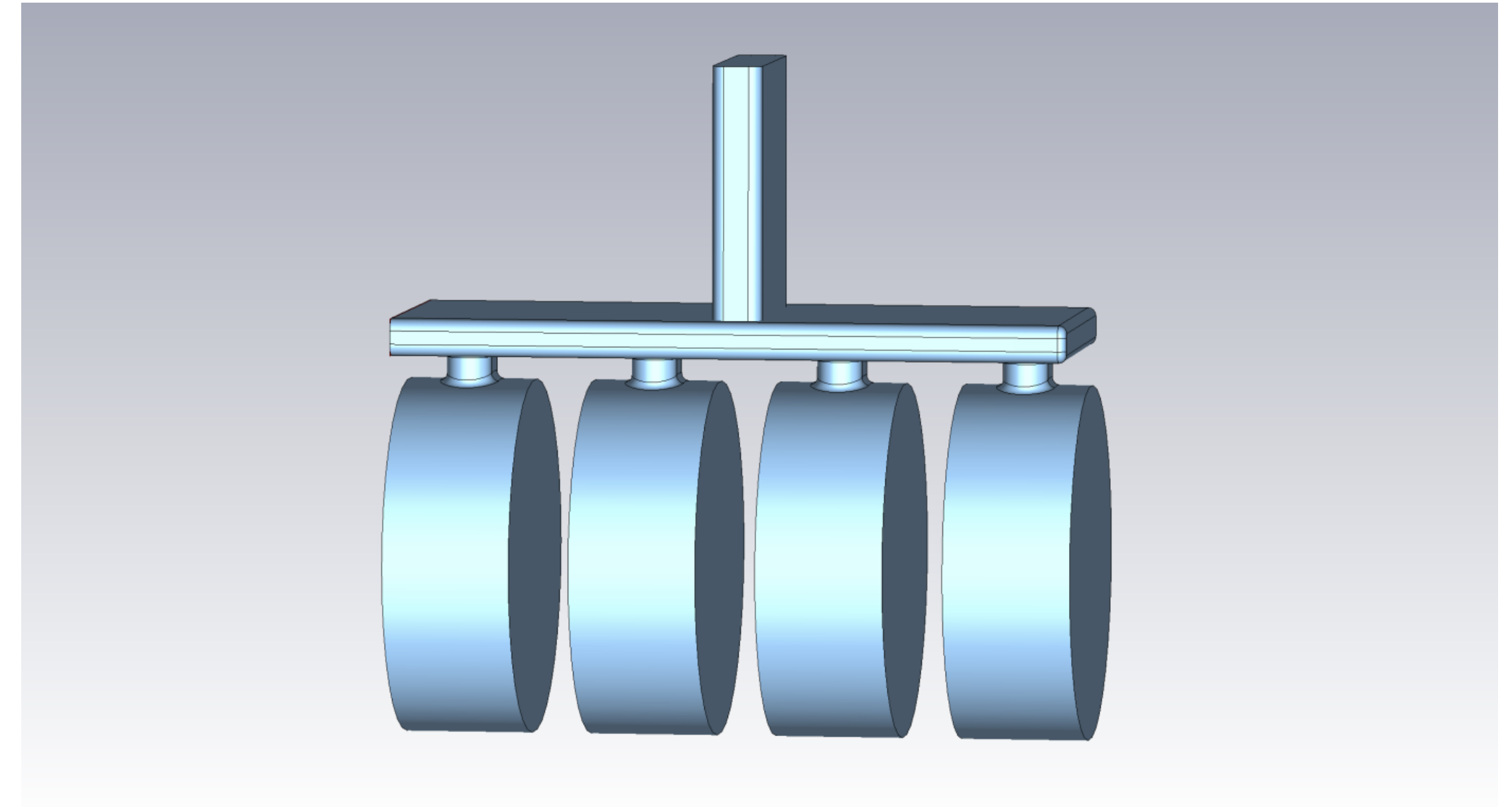


- Eigenmode analysis gives the resonant mode frequencies of the structure and their corresponding field patterns.
- When a lossy background is defined, eigenmode lets you study Q-factors of your structure.

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Summary + next steps

- The multi-objective optimization required to demonstrate feasibility for a μ C involves using both types of analysis.
- Our model must ensure that cavities resonating at 805MHz can be spaced with the appropriate phase, contain equal field strengths, and exhibit efficient coupling.



Conceptual Design of an 805MHz Cavity with Beryllium Windows and Distributed Coupling