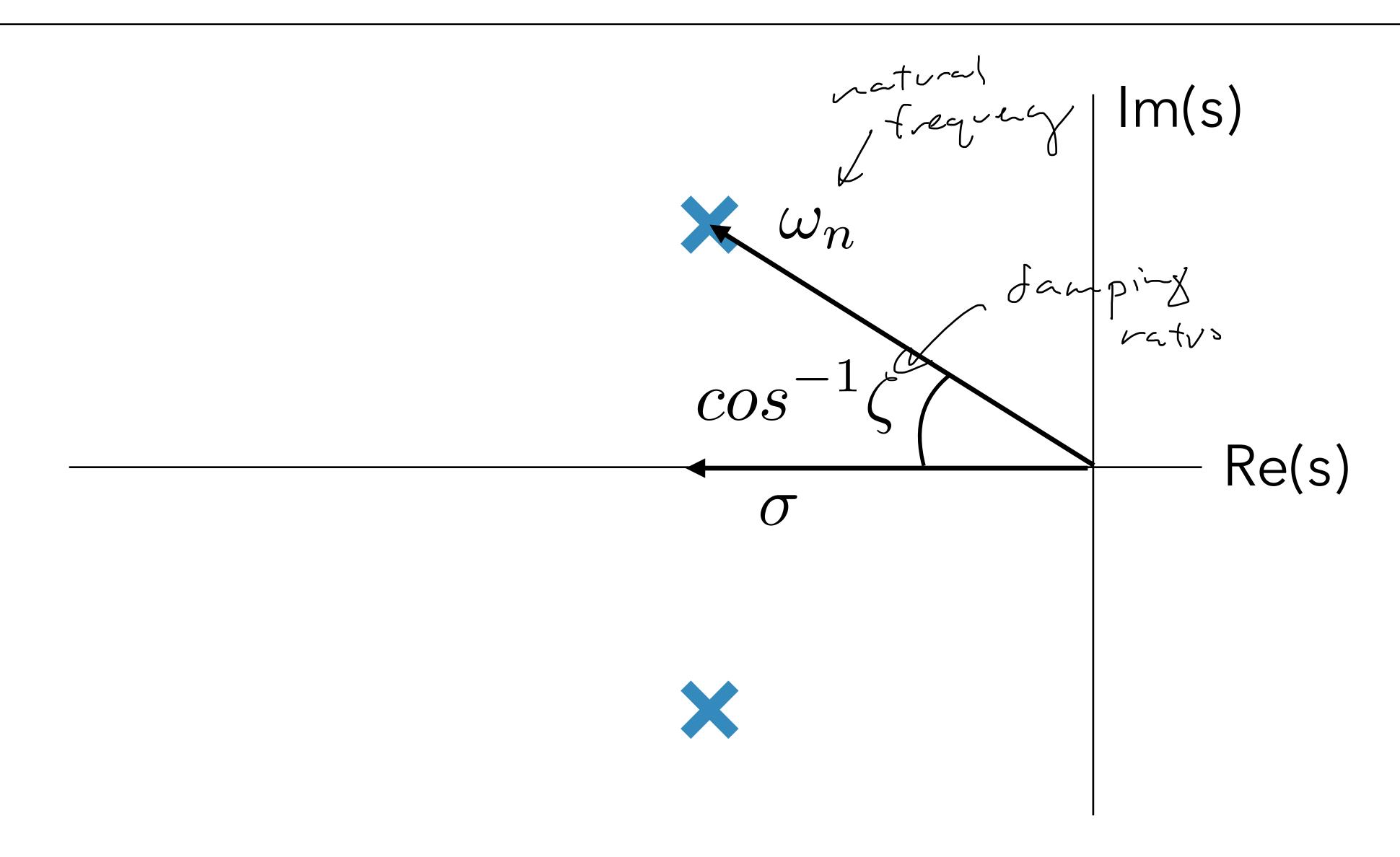
Dynamic Stability

Lecture 12

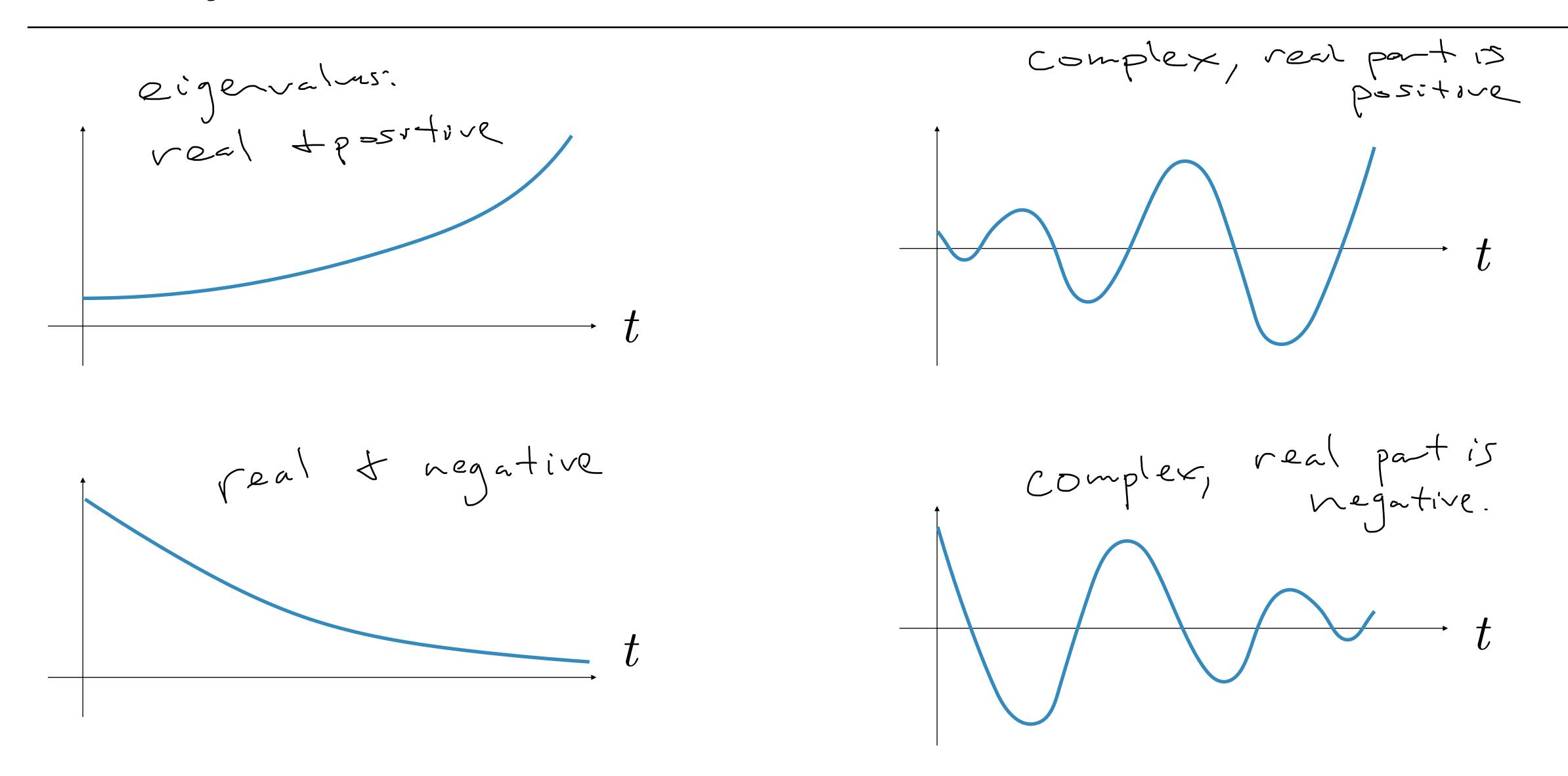
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Andrew Ning
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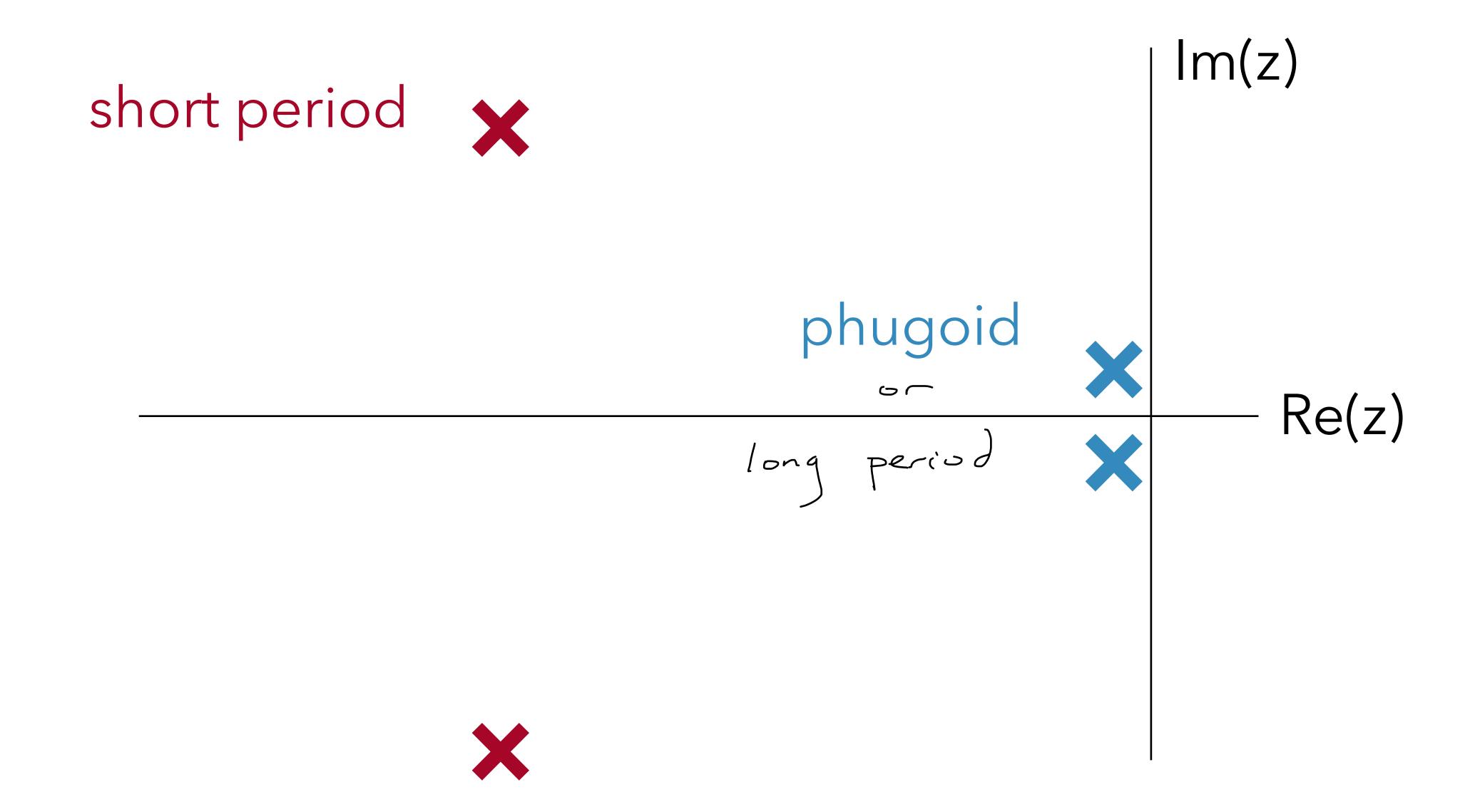
Eigenvalues Review



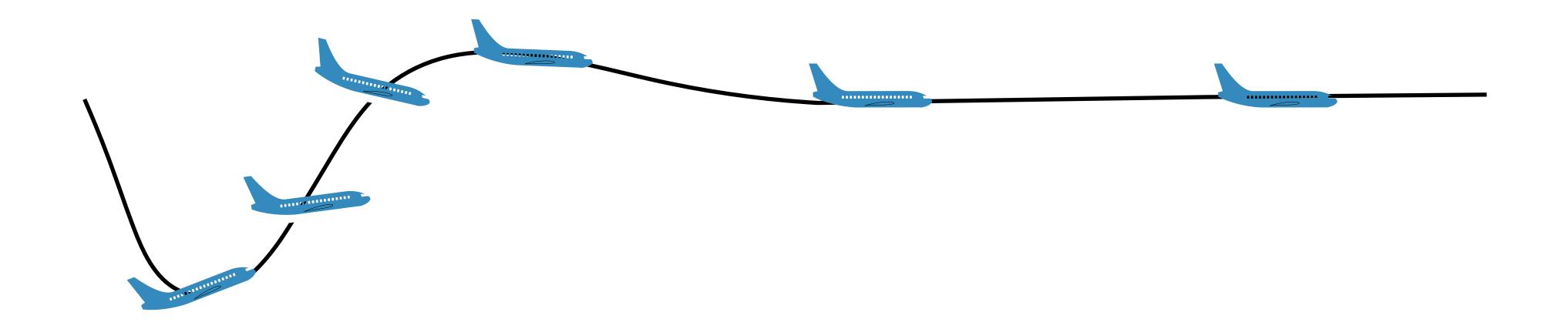
Stability



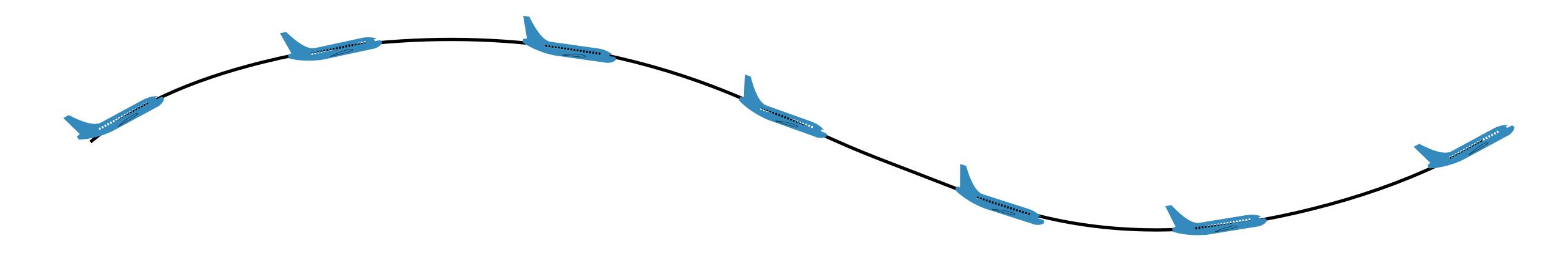
Longitudinal Dynamics



Short Period

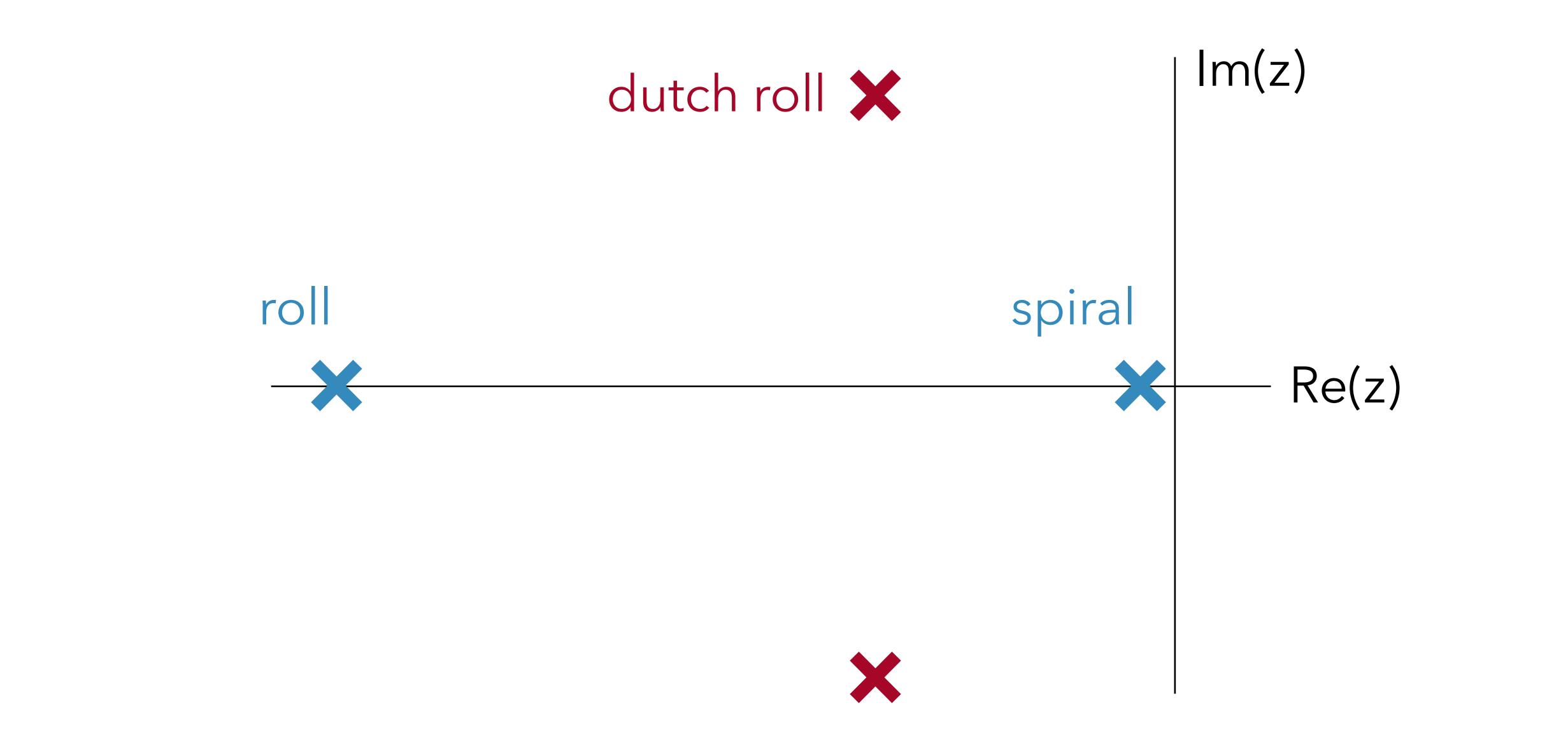


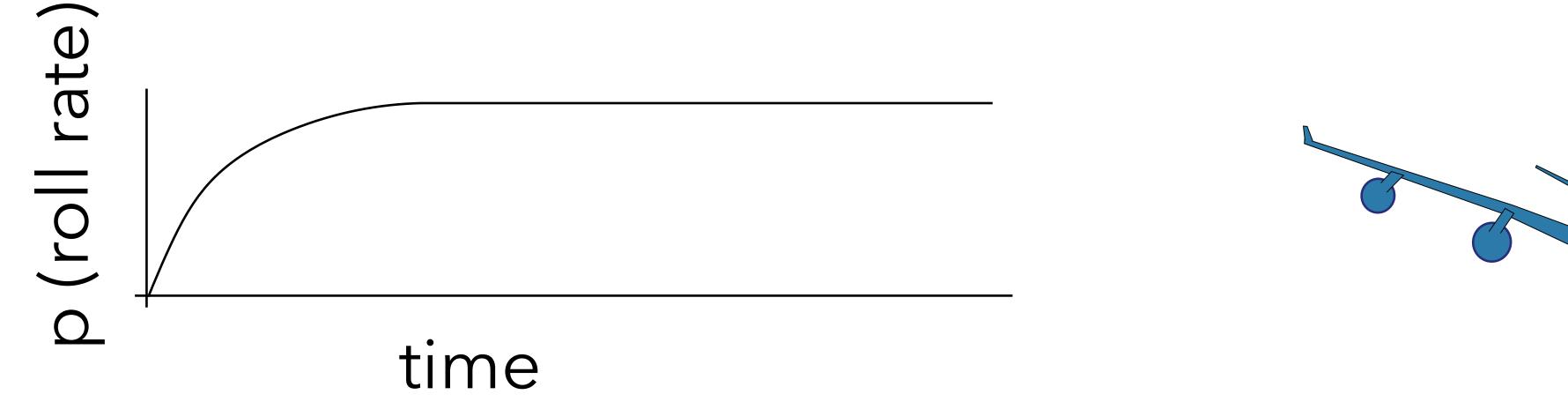
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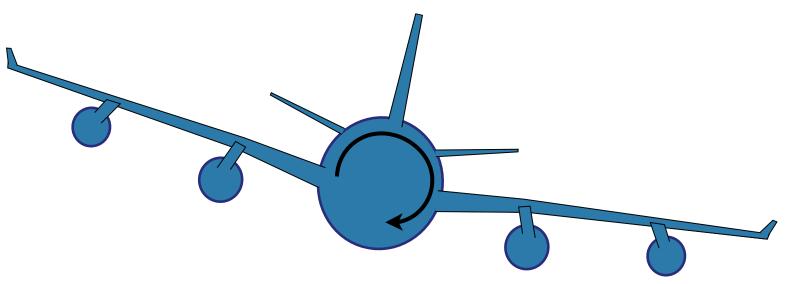


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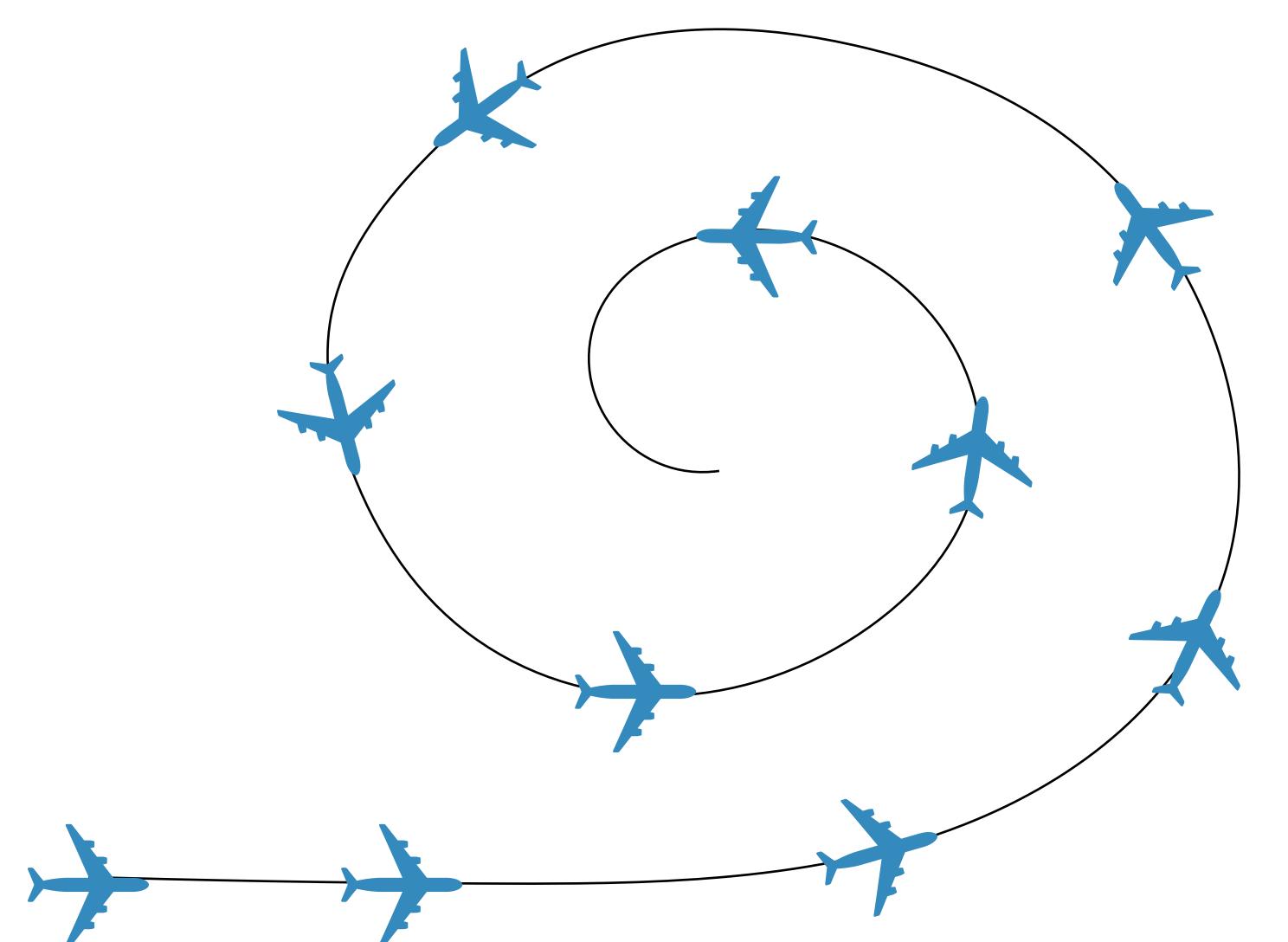
Lateral Dynamics





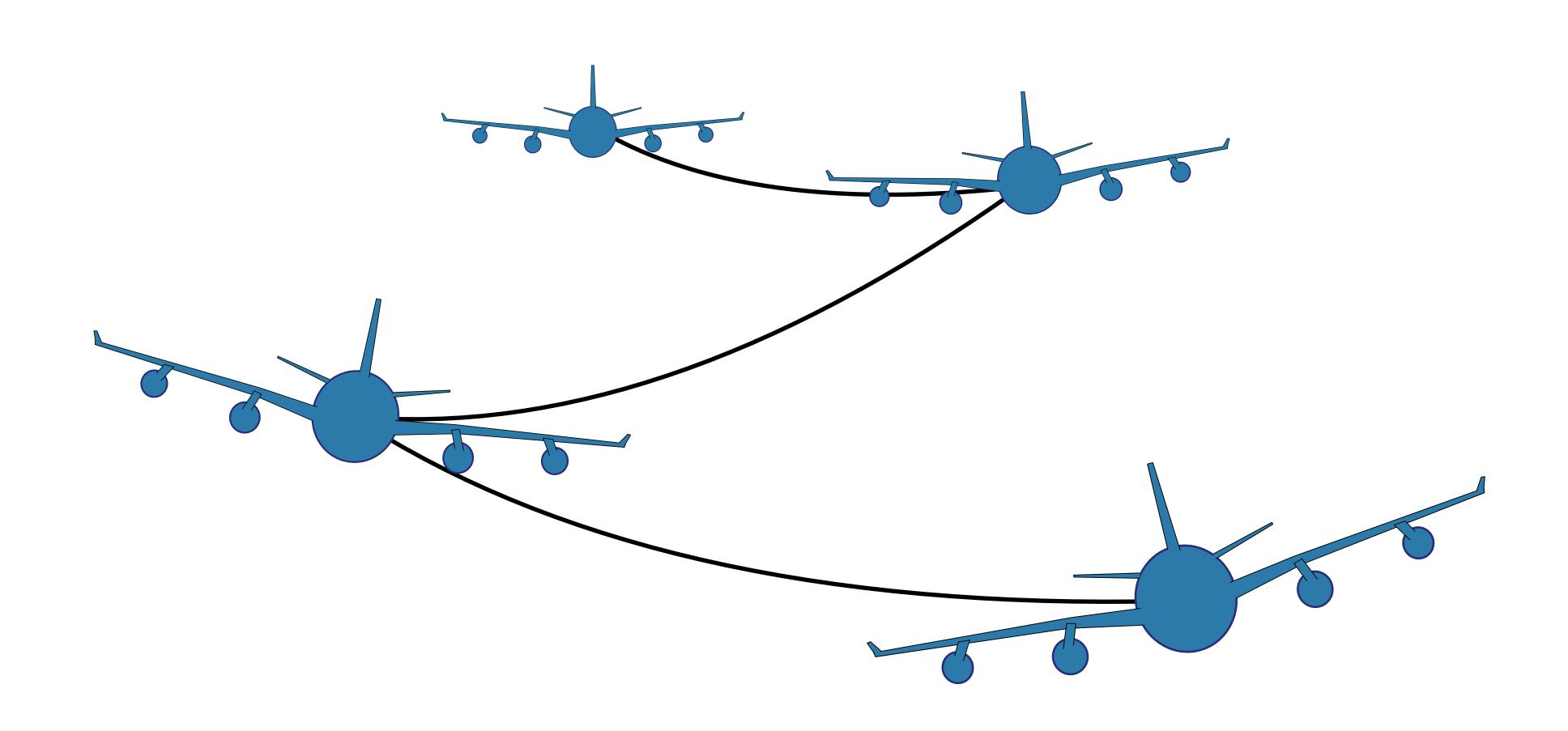


Spiral



https://youtu.be/3PFpHDD7rWY

Dutch Roll



https://youtu.be/oLe8ajpGNTs