Outline of thesis

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- (a) Introduce the problem and then give basic \mathbb{R}^n examples
- (b) Introduction to FEEC/DG
 - i. Covariant Derivatives (translation / isometry prop)
 - ii. Musical Isomorphisms
 - iii. De Rham Complex
- (c) Introduction to GM
 - i. Intro to Hamils and Lie Brackets
 - ii. Deriving Euler Equations in rigid bodies
 - iii. Derive Euler fluid using rigid body

2. Eulers Equations

- (e) Compressibility
- (f) both
- (g) Theory about stability etc. (maybe not)
- (h) start finding casimirs
- 3. Casimirs, Helicity and Conservation

(a) Find more casimirs

show Arnold bracket

(b) graphs and reeb graphs

(c) BRACKETS

4. Appendix

(a) Intro to homology and cohom

(Wever teduce on the Hamiltonians side and never code Jour our numerica

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