Thesis structure: title?

- 1. Introduction
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- 2. Framework for analytical model
 - Theory of superconductivity (short?)
 - Andreev reflection, SN interface
 - Theory of SNS junctions
 - · Foundations of the quasiclassical model
- 3. Results of analytical model
 - · Critical current for SNS junctions
 - Critical current for SNS with QPC
 - Critical current for SNS with QPC and edge contribution
- 4. Framework for numerical model
 - (Experimental setup ?)
 - Tight binding model of bilayer graphene
 - Random matrix theory for transport
- 5. Results of numerical model
 - QPC:
 - Conductance and critical current calculation
 - Effect of disorder
 - Effect of rough edges
 - Effect of finite doping in leads?
 - Current density in sample ?
 - Zigzag vs Armchair
 - Waveguide setup
 - Same as above?
 - Current density form Fourier transformation
- 6. Conclusion
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