

Master degree thesis

- QKD introduction
 - what is QKD
 - introduction
 - Qubit
 - Photons
 - BB84
 - Other protocols
 - Fiber
 - Satellite
 - what is a PAT system
 - introduction
 - Fine
 - Coarse
- Hardware design
 - optical setups of QKD
 - the main blocks and its functions
 - optical setups of PAT-fine
 - the setups variants
 - additional circuit BIAS
- Software design
 - the organization of the QKD software
 - the problem we had
 - the solution we chose
 - the development of PAT-fine software
 - the request
 - the UML planning
 - the classes
 - the main algorithm
 - all the setups available
- Test and future developments
 - test done with the PAT-fine setup
 - the performance comparison with the old software
 - future developments