

## Professor Meeting Minute 8

Date: April/11/2019  
Location: GJL POWER LAB 102  
Attendance: Dr. Herbert Hess  
Xin Han  
Zhengqi Li  
Manasa Pathamsetty

Performed locked-rotor test, no-load test and DC test for both stator and rotor side.

- Locked-rotor test: Clamp the rotor to make slip equal to 1, equivalent to short circuit test in transformer.
- No-load test: Short rotor side to make slip close to zero, equivalent to open circuit test in transformer.
- DC test: Apply DC voltage to only one side of the DFIG, no induced current at the other side. Calculate corresponding resistance depending on the configuration (Y or  $\Delta$ ).
- Put the model as an induction machine to get torque vs. speed curve.

Design review:

- Project goal
- Both as machine and wind generator
- Wind turbine system model