The jacket is coming
Minimize mass with fatigue constraint

Jacket Design Optimization (JADOP)
Conceptual design decision: leg-distance

Upwind/OC4 reference jacket (5 MW)

Innwind reference jacket (10 MW)
Reduced mass with 12 percent

Optimized design, m=1152 [tons]

Optimized design, m=1014 [tons]

Kasper Sandal
PhD @ DTU Wind
Developer of Jadop

9. oktober 2016
200 designs optimized / hr

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Developer of Jadop

9. oktober 2016
Optimization + You > 10*You

• Automatically explore the design space

• Choose parameters such as
  • leg distance
  • number of sections
  • k-joint eccentricity
  • height

• Use your own rotor-loads and design constraints

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