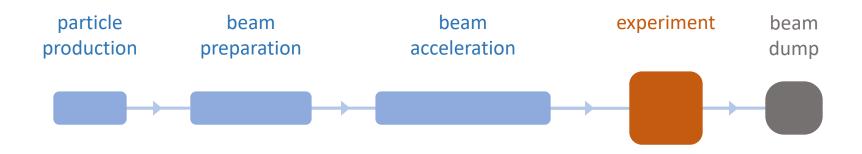
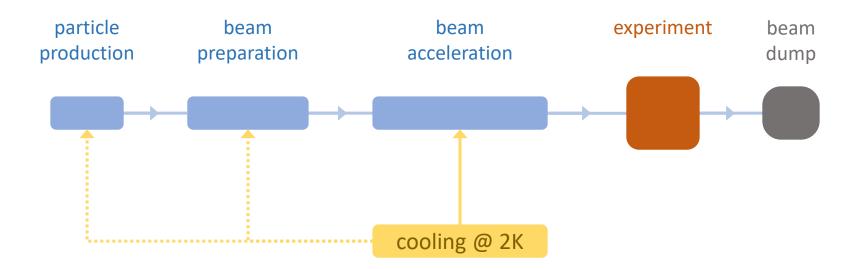
# Where do accelerators use power ?

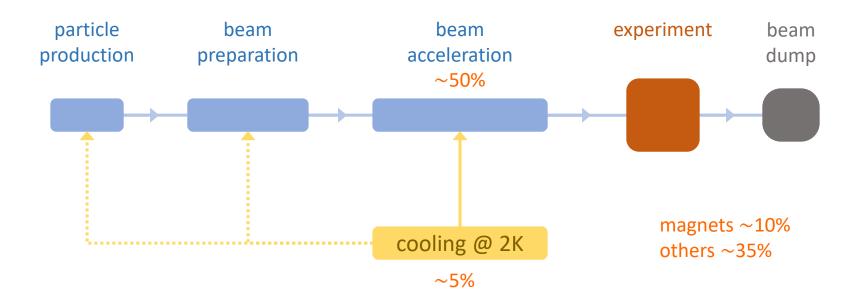
#### **Basic structures of a particle accelerator**



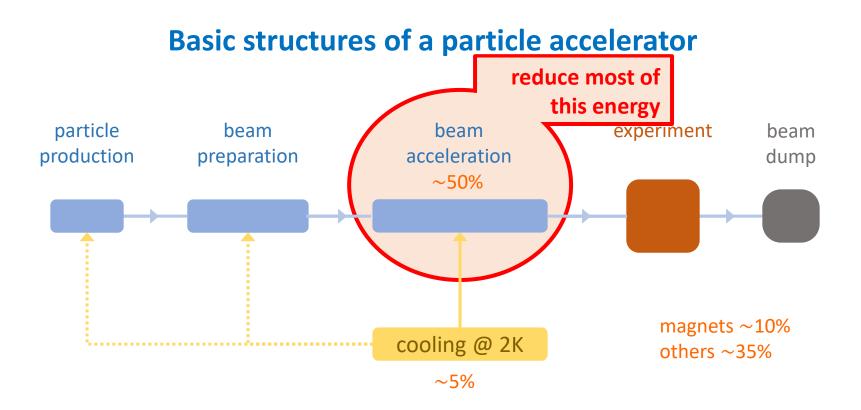
#### **Basic structures of a particle accelerator**



### **Basic structures of a particle accelerator**

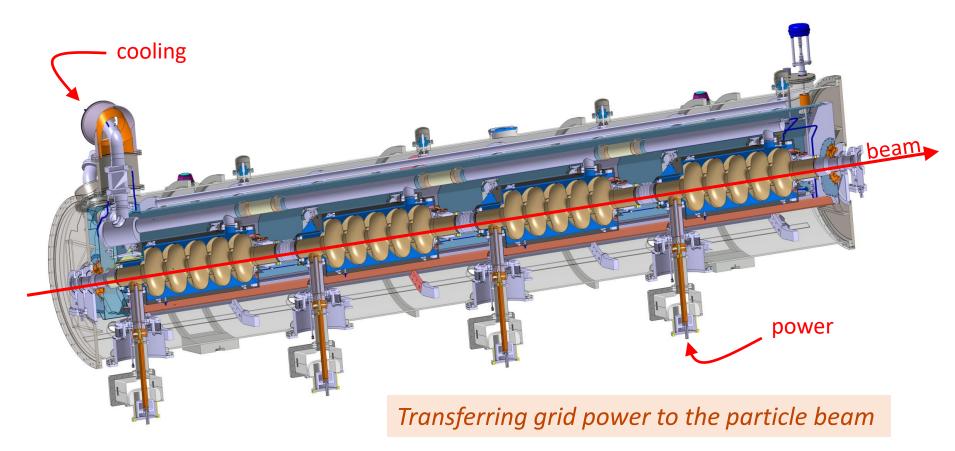


<u>Example</u>: typical power consumption for an electron-positron Higgs Factory the highest priority next collider for particle physics

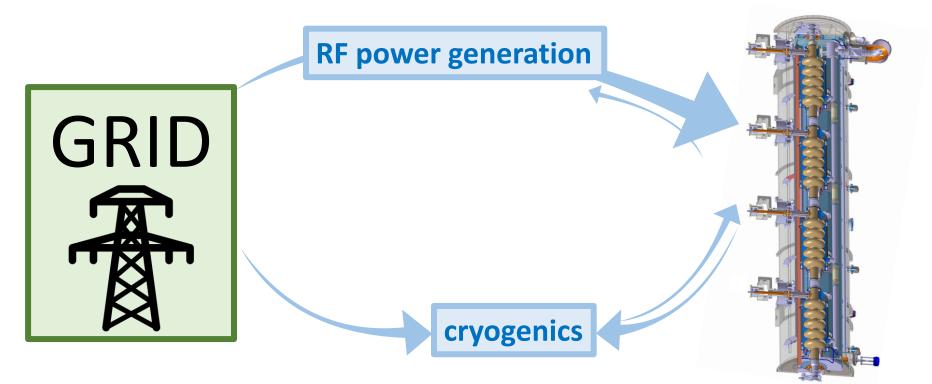


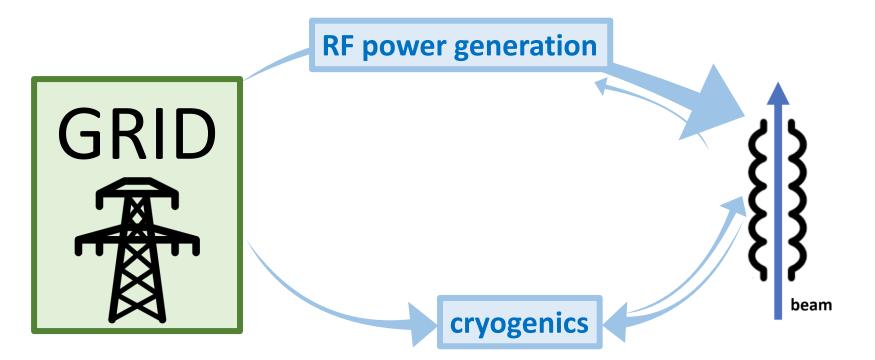
<u>Example</u>: typical power consumption for an electron-positron Higgs Factory the highest priority next collider for particle physics

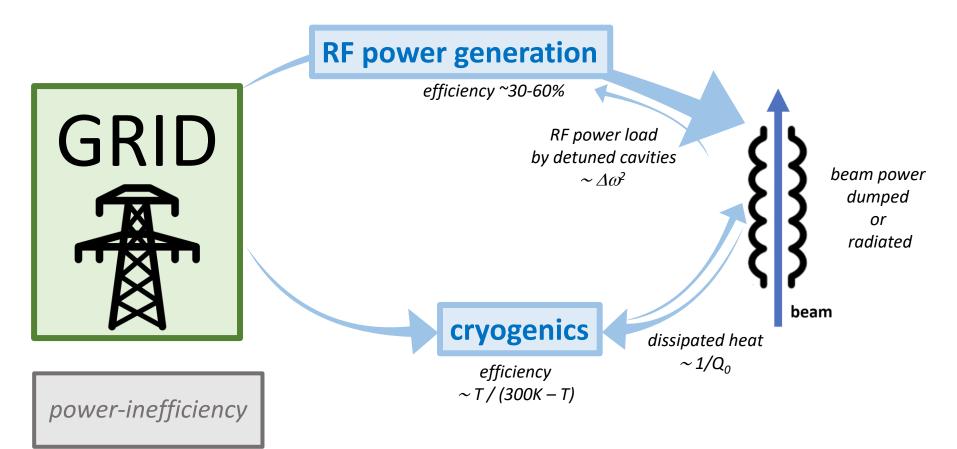
## Key building block for beam acceleration: the SRF cryomodule



**Superconducting Radio Frequency (SRF)** is the enabling technology for modern accelerators The main energy-saving technologies are universally applicable across SRF cryomodules and accelerators (e.g., ESS, EuXFEL, HL-LHC, ...)

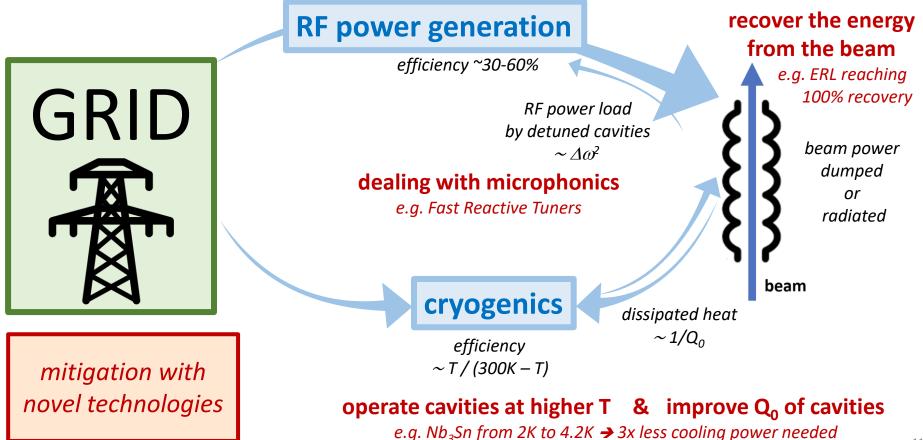






#### improve amplifier efficiency

e.g. solid state amplifiers for oscillating power demands



## **Three main iSAS Technology Areas**

