

Plasma is the most common state in the Universe



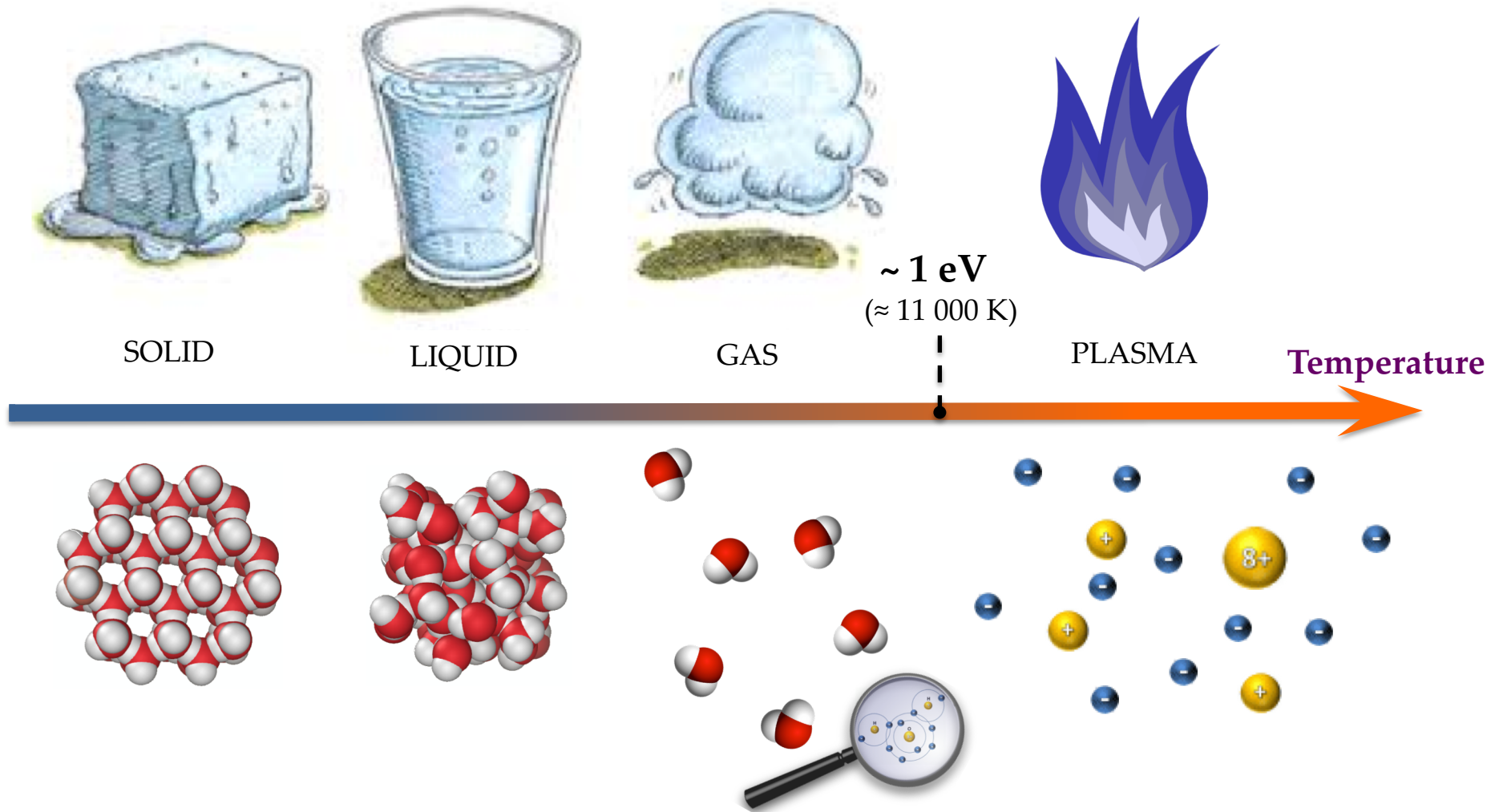


# Plasma is the most common state in the Universe



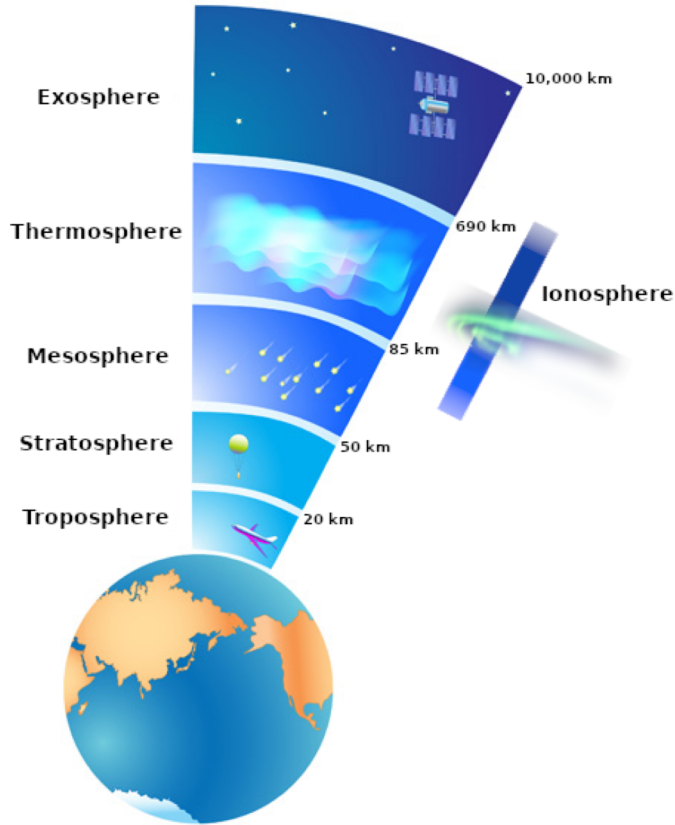


# Plasma: the fourth state of matter

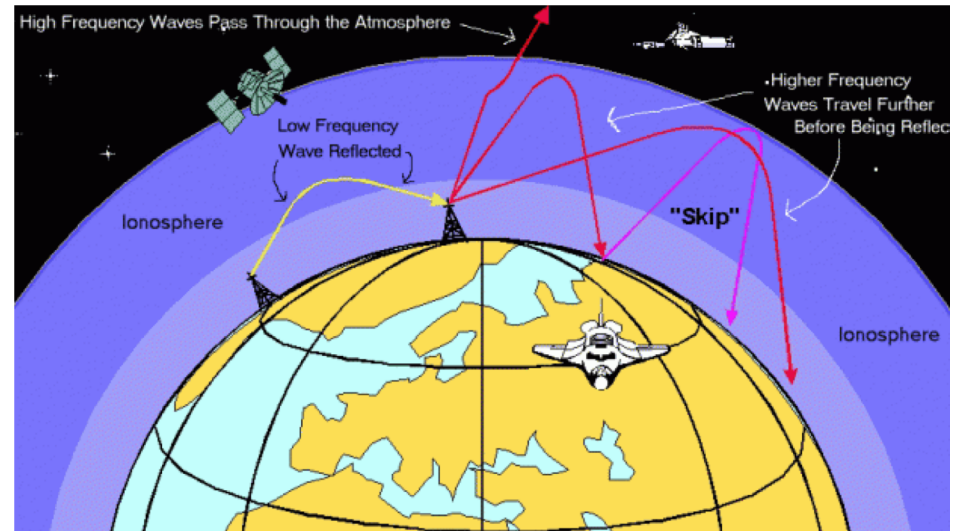




# Ionosphere allows radio signals beyond horizon (1920's)



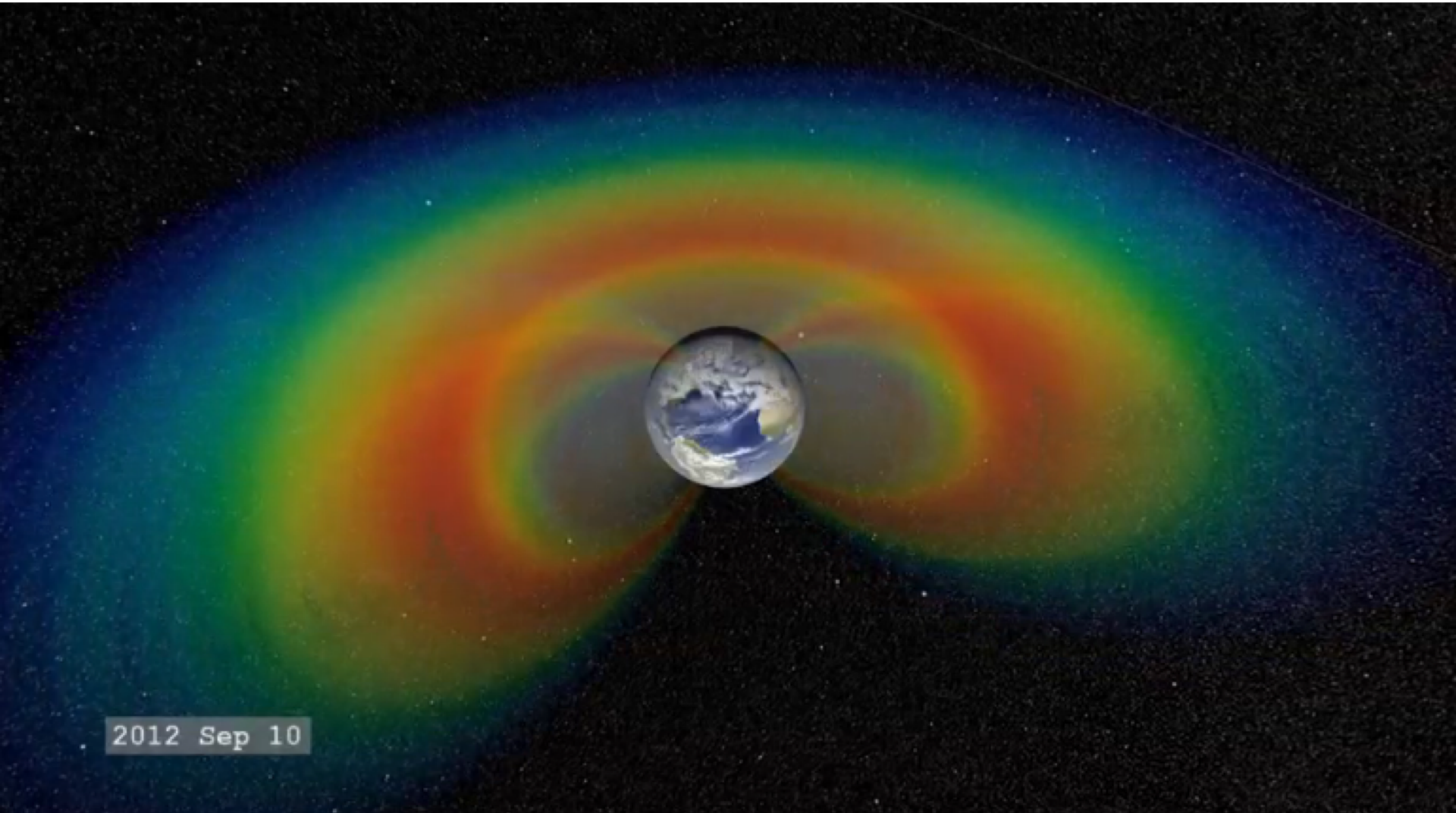
source: astro3d.org.au



source: swpc.noaa.gov

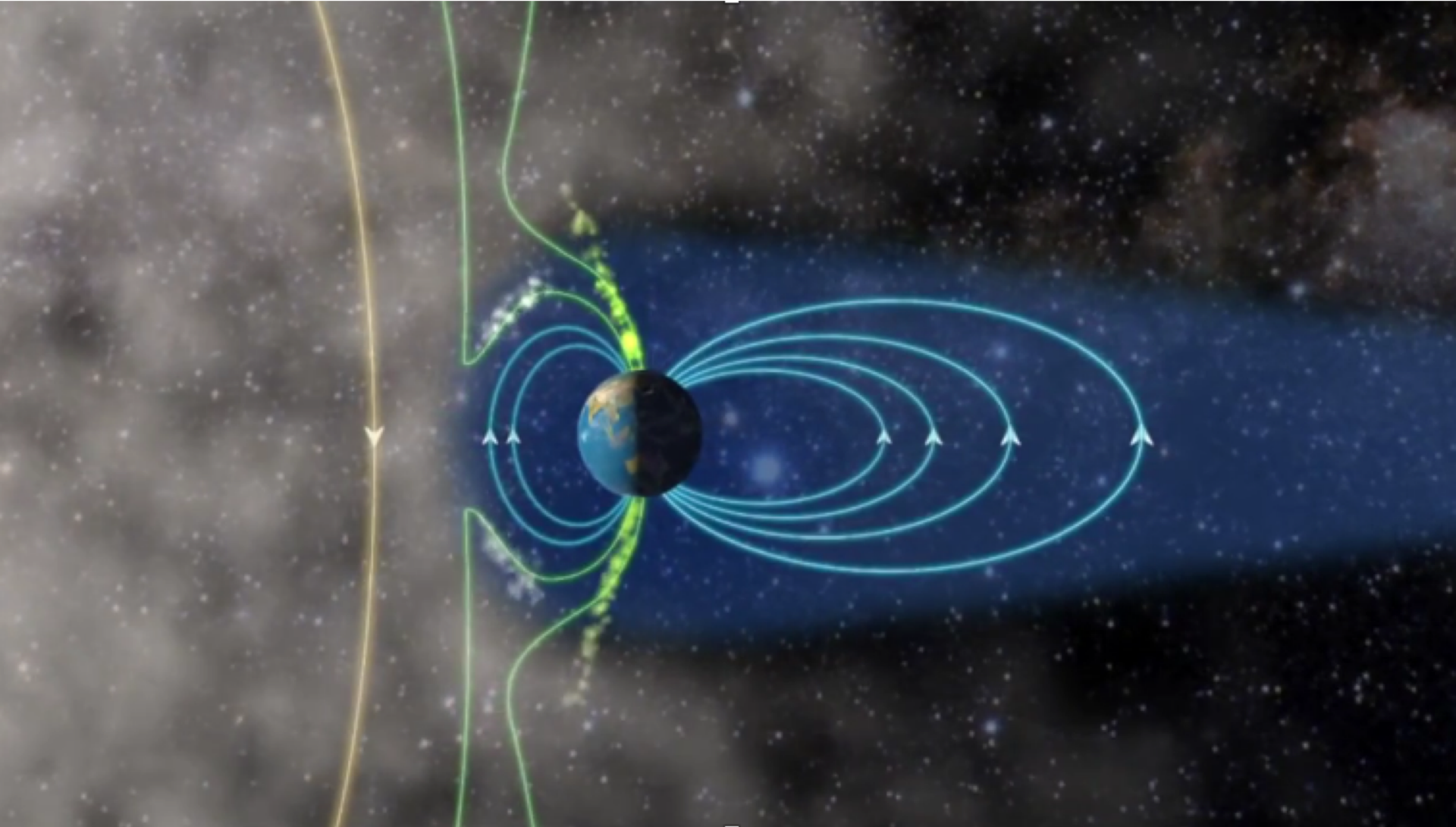


# Van Allen initiated “space plasma physics” (1958)



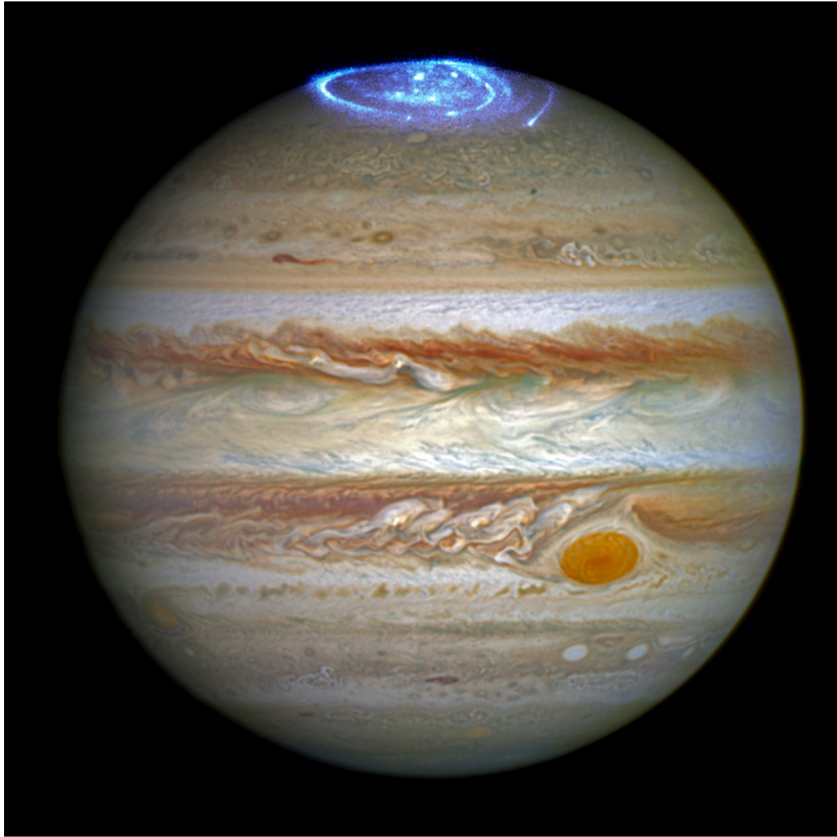


# Plasma connects us all at the cosmic scale

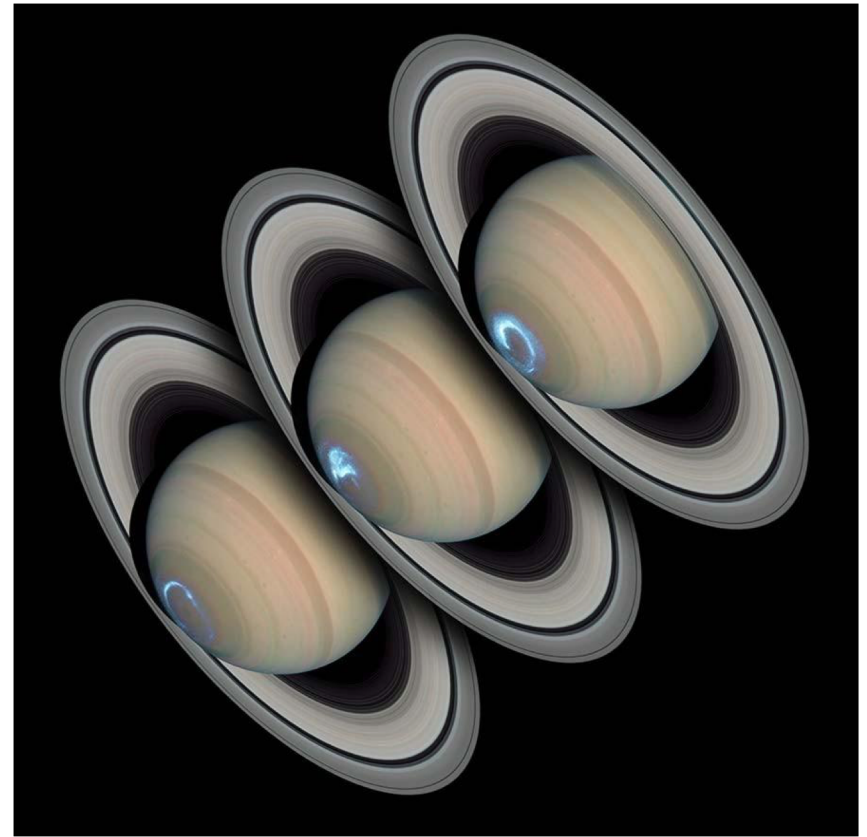




# Plasma connects us all at the cosmic scale

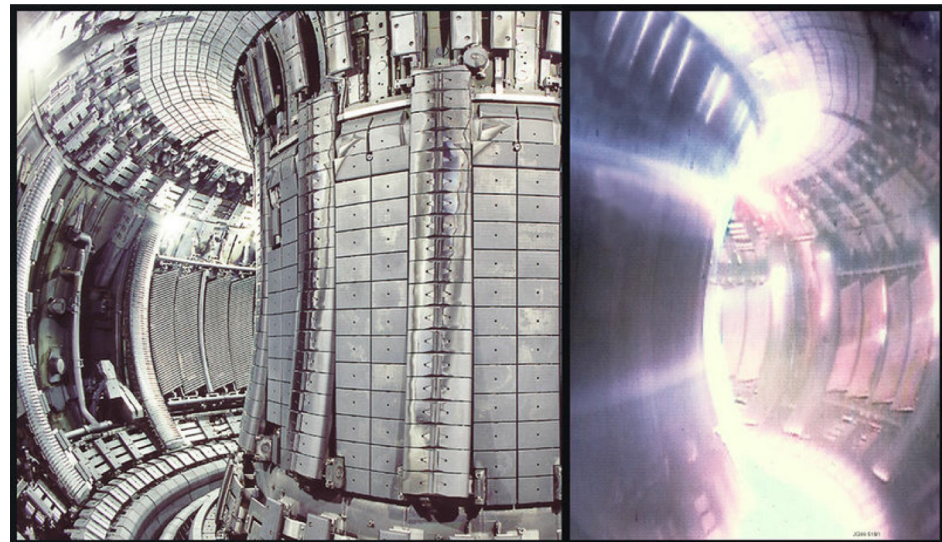


source: NASA





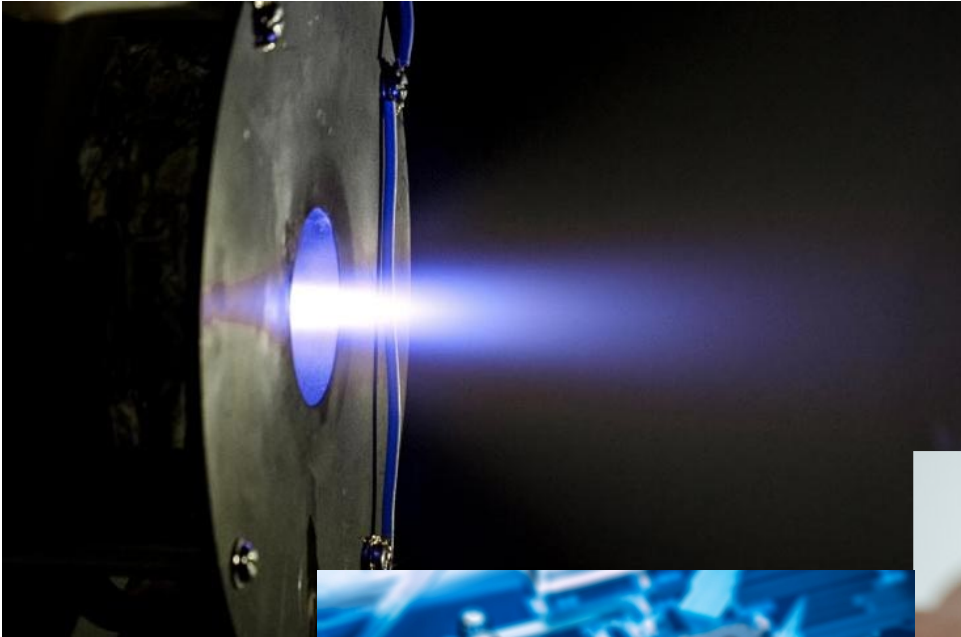
# Plasma physics is central in fusion research (since 1950s)



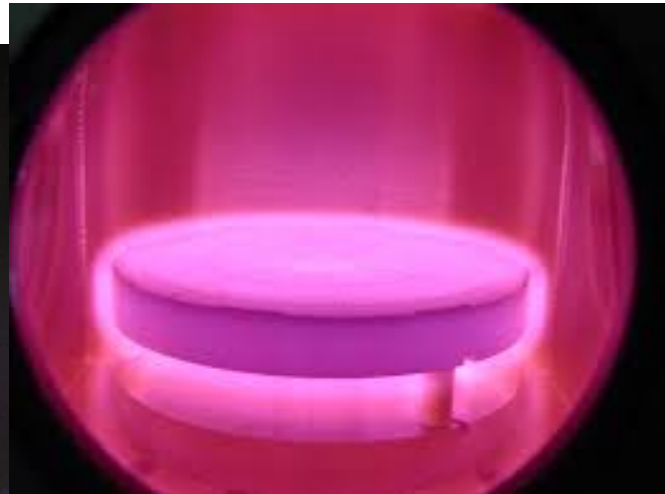
JET tokamak in the UK

source: [legal.un.org](http://legal.un.org)

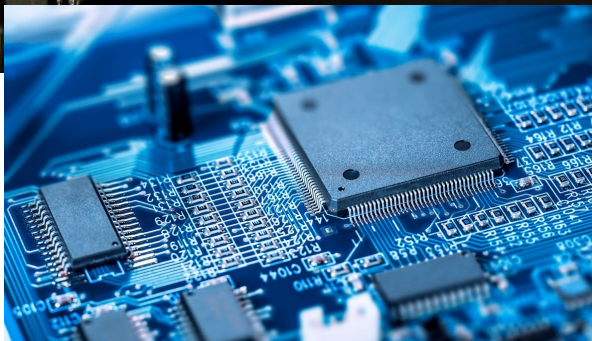
# Plasma is present in many technologies (since 1960s)



source: ESA



source: nanomaster.com



source: asml.com



source: INP Greifswald



# Plasmas need low density and high temperature

