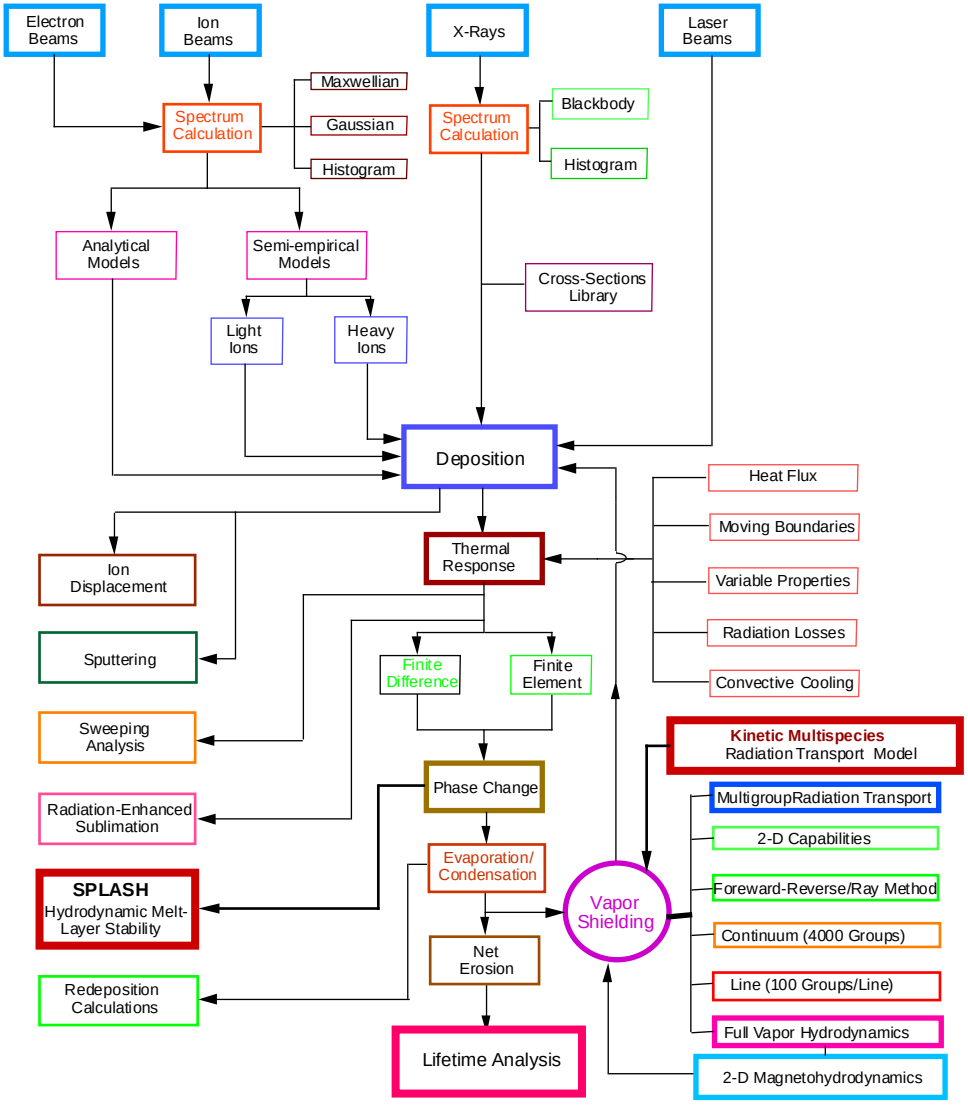A*Thermal-S Computer Code