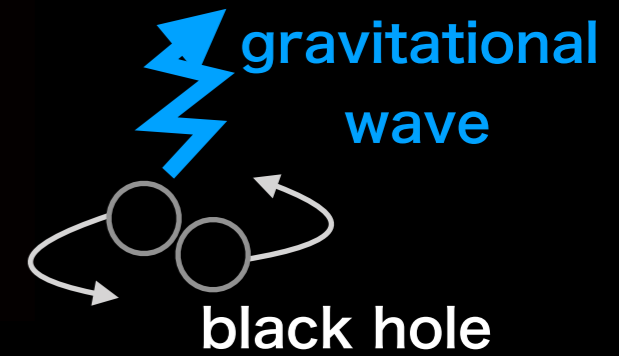
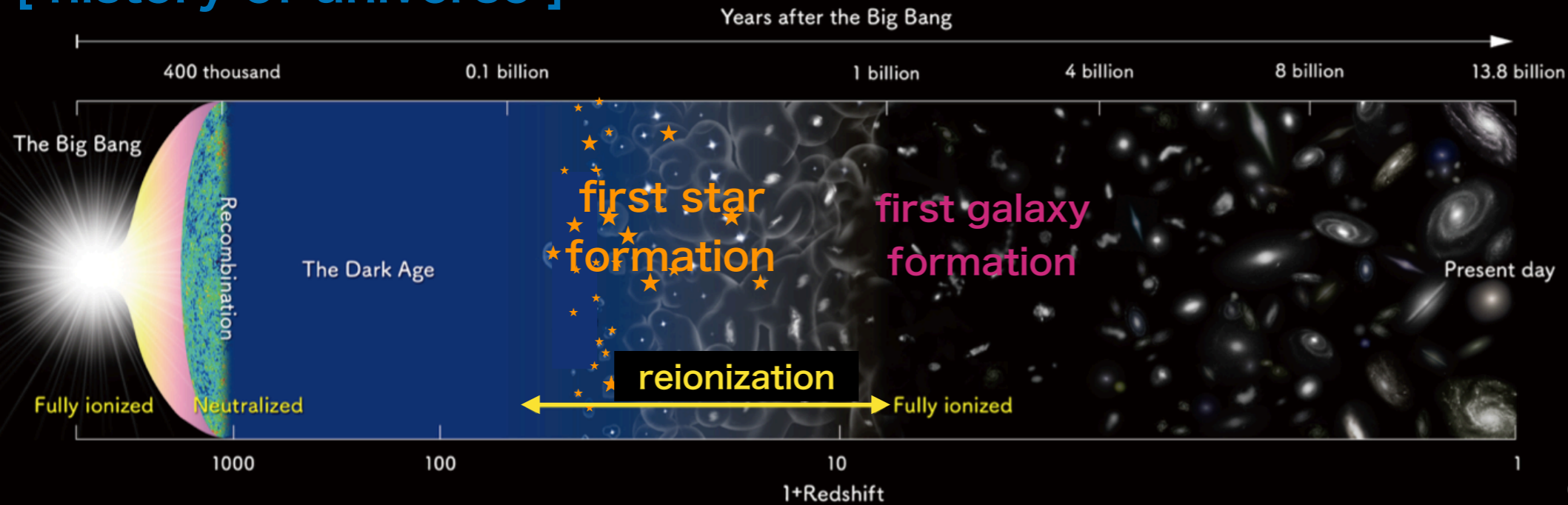
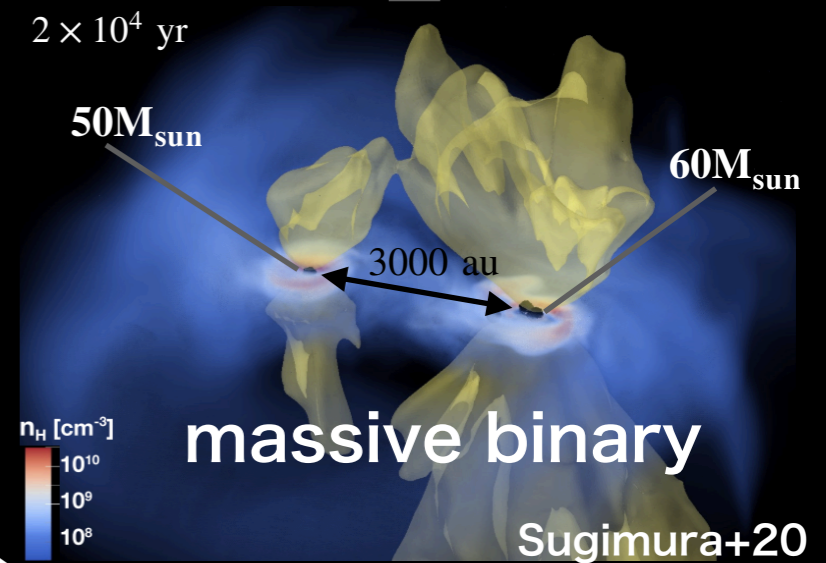
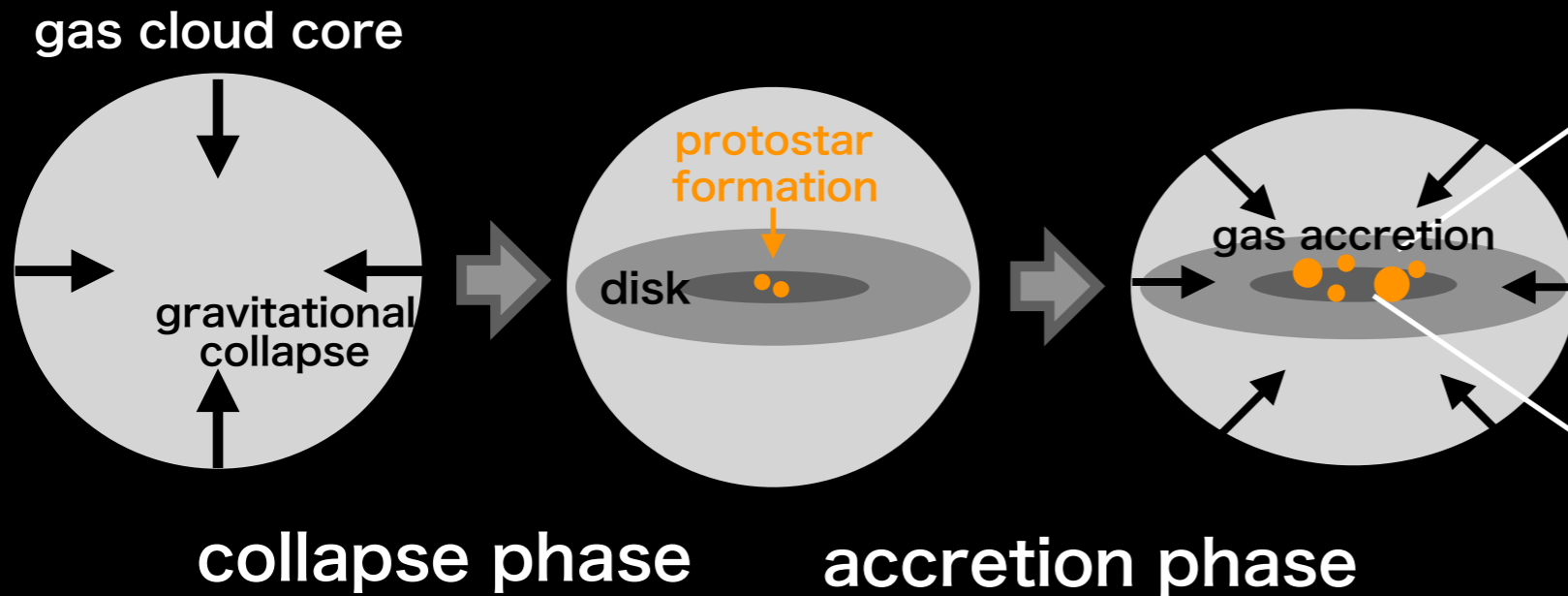


first generation star (first star)

[history of universe]



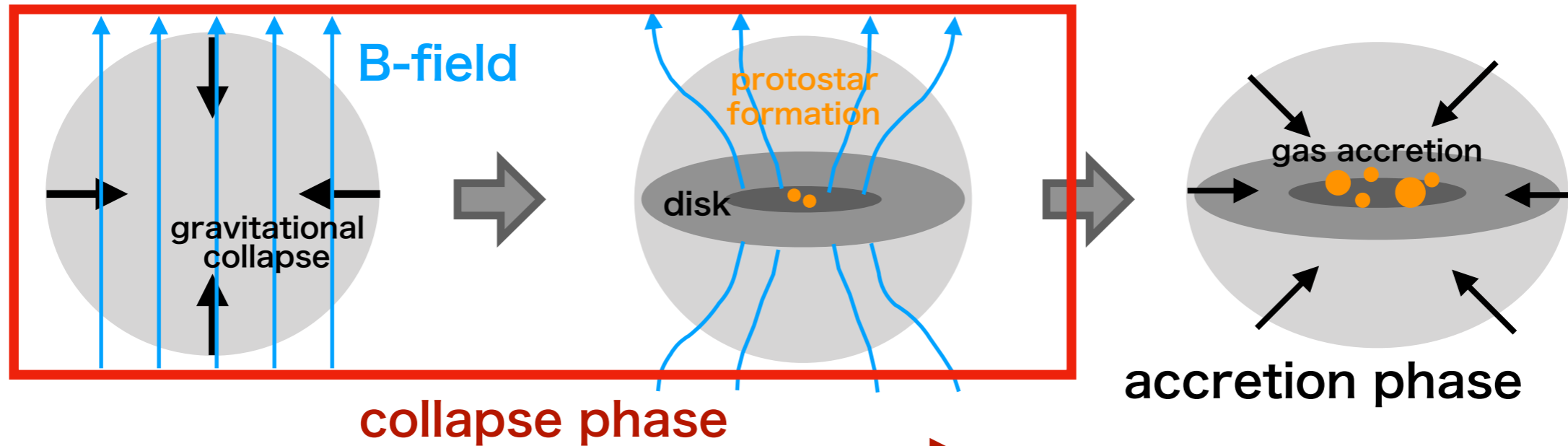
[star formation process]



We want to know about the nature of fist star with magnetic fields

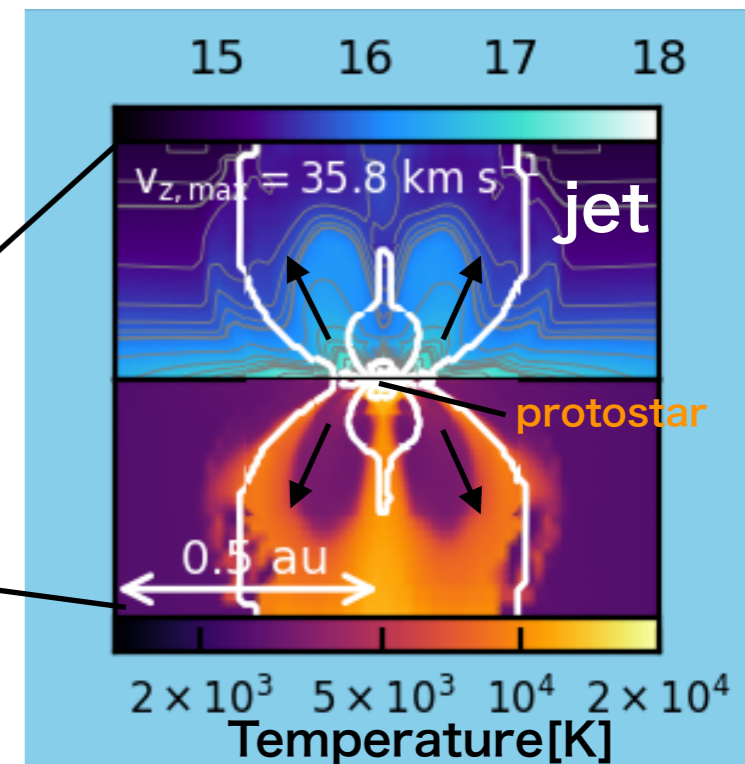
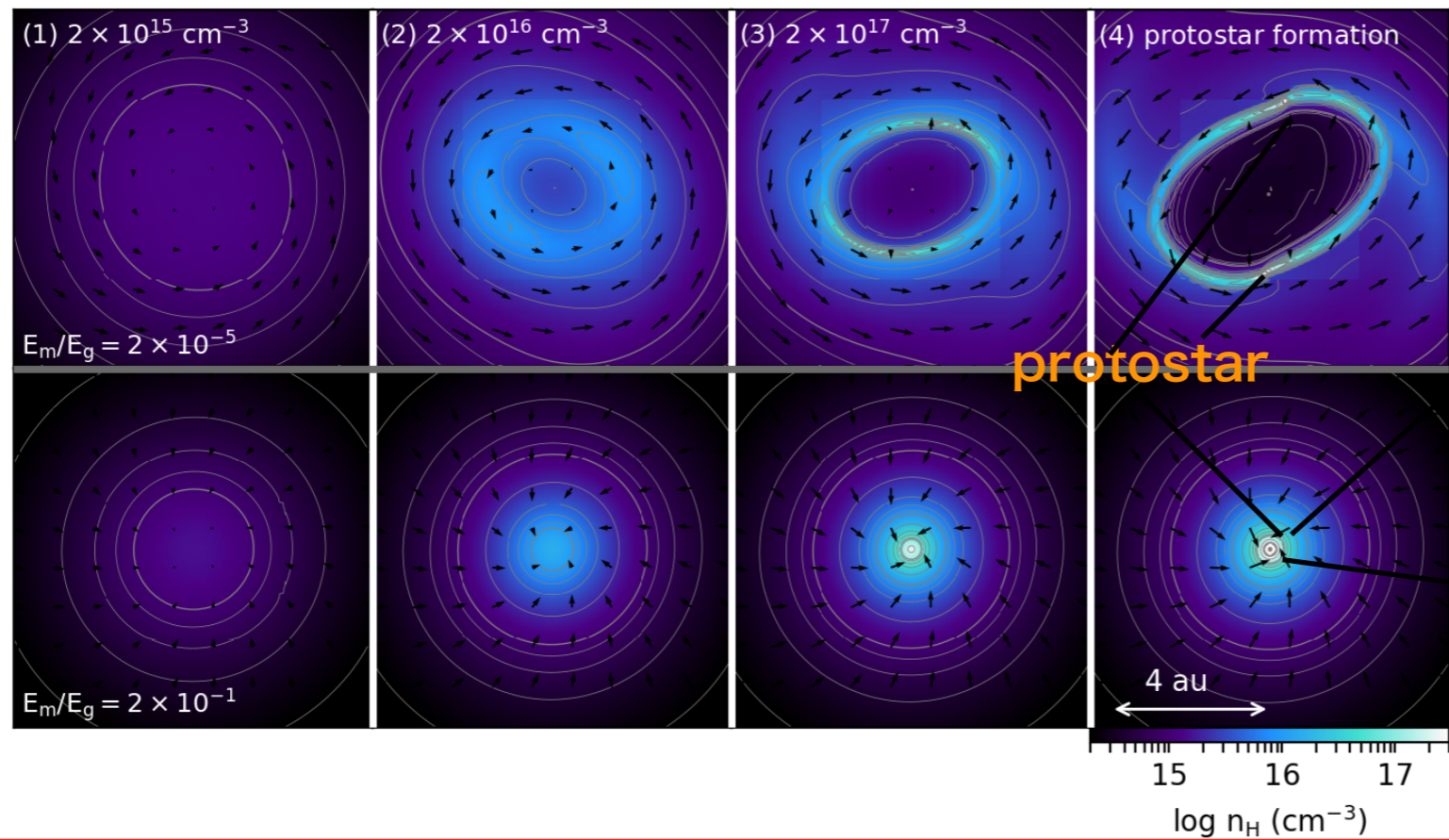
recent our work

[star formation process]



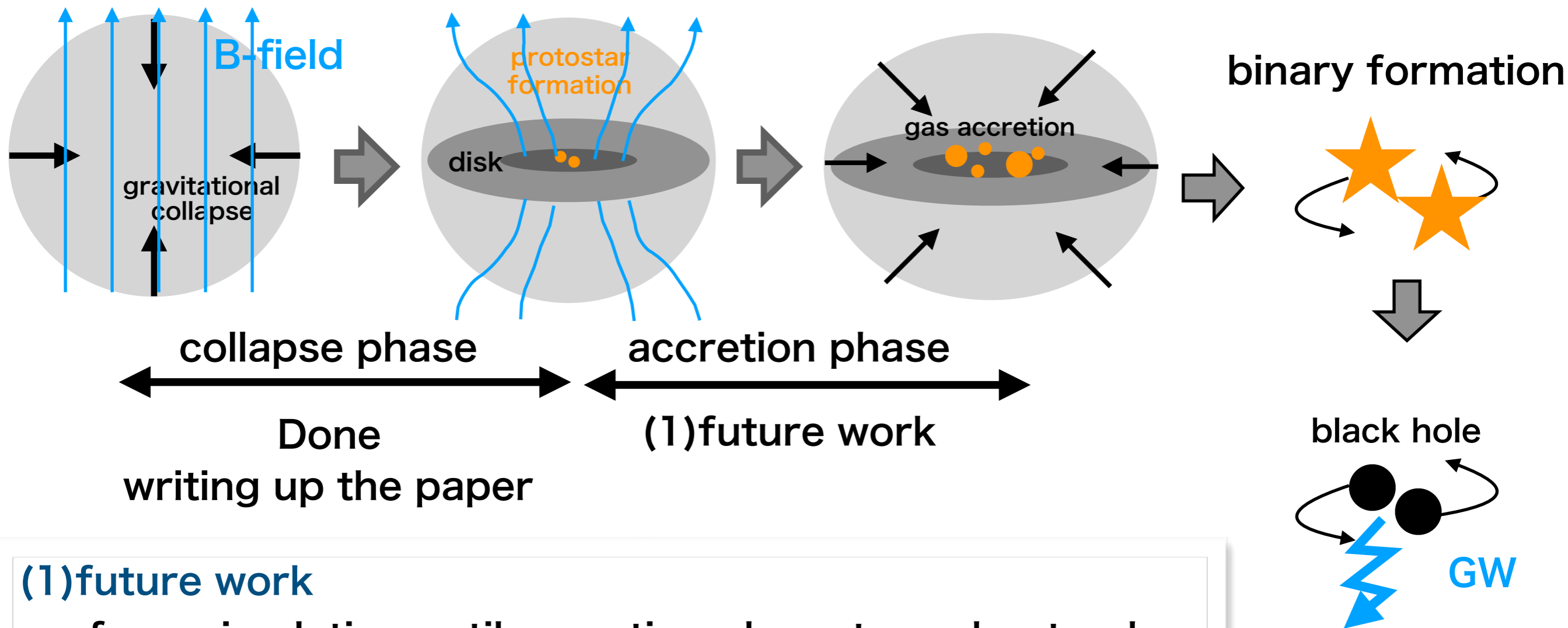
weak
B-field

strong
B-field



B-field can affect binary formation and the nature of first star

future plan



(1) future work

perform simulation until accretion phase to understand the nature of first stars (e.g., star mass, binary statistics)

-> C.Federrath group

(2) future work

Comparison with observation of GW event

by using semi-analytical model of prof. Schneider

(2) future work

Course status

[GPPU points]

GSP : 0 pt

GASP : 1 pt

attend GPPU Semmiar(18th August - 20th August)

[oversea stays]

- **1 weeks in Chile, Concepcion to attend an International conference
(2th March - 7th March)**

[plan of oversea training]

- **Study the effects of magnetic fields and turbulence on first star formation with C.Federrath**
- **use semi-analytical model of R.Schneider to compare our simulation results with observation of GW event**
 - **I will contact with them and decide detail soon**