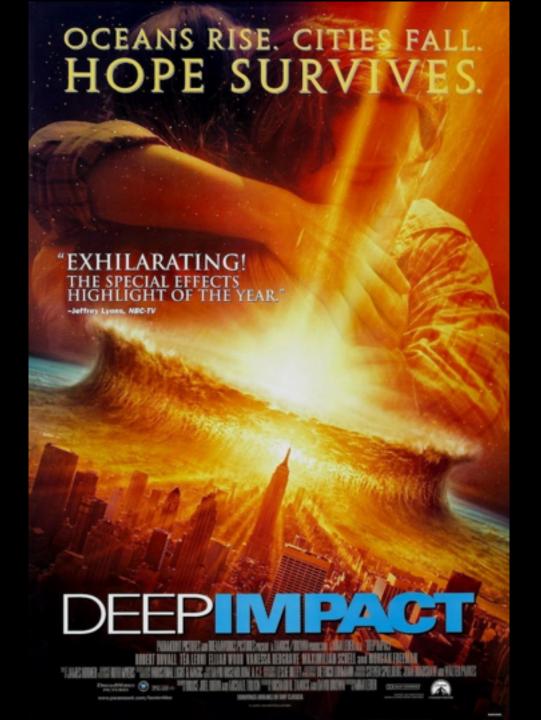


Bumhyun Lee
Yonsei University

Q. What's the title of this movie?

ARMAGEDDON



**Bumhyun Lee** 

**Yonsei University** 

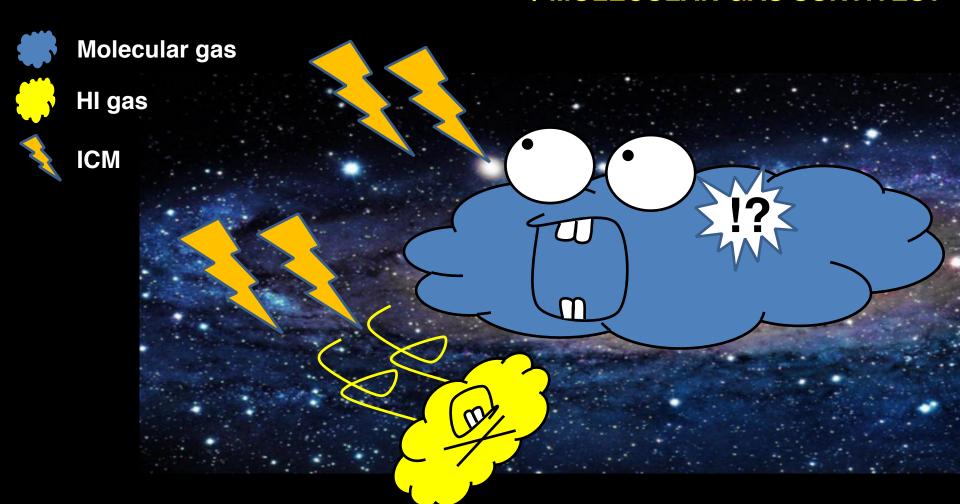
#### **DEEP IMPACT:**

THE DESTINY OF MOLECULAR GAS UNDER STRONG RAM PRESSURE

**√ICM BOMBARDS A GALAXY** 

**√ HI GAS IS STRIPPED** 

**√ MOLECULAR GAS SURVIVES?** 



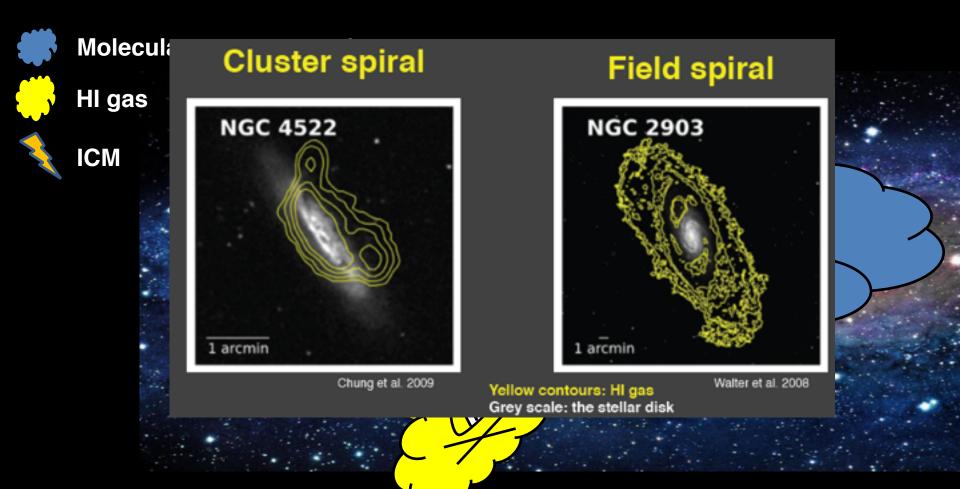
### **DEEP IMPACT:**

THE DESTINY OF MOLECULAR GAS UNDER STRONG RAM PRESSURE

√ ICM BOMBARDS A GALAXY

**√HI GAS IS STRIPPED** 

**√ MOLECULAR GAS SURVIVES?** 



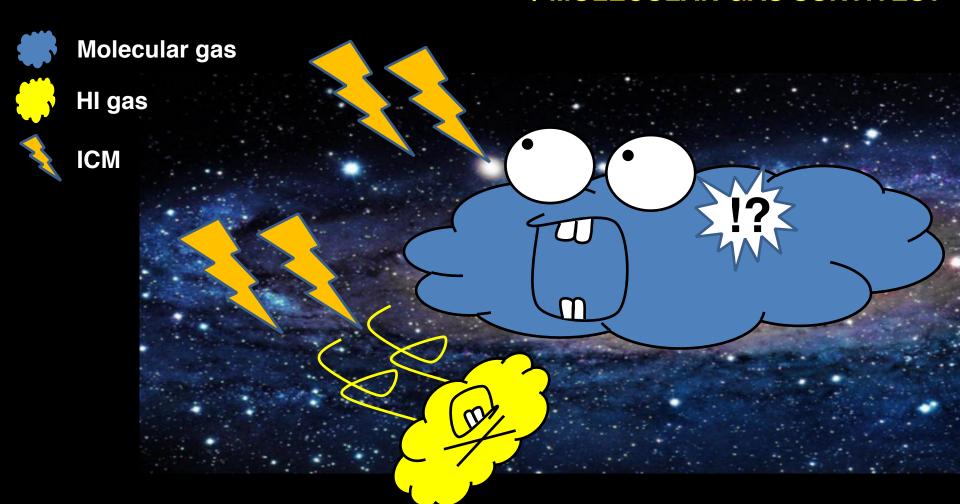
#### **DEEP IMPACT:**

THE DESTINY OF MOLECULAR GAS UNDER STRONG RAM PRESSURE

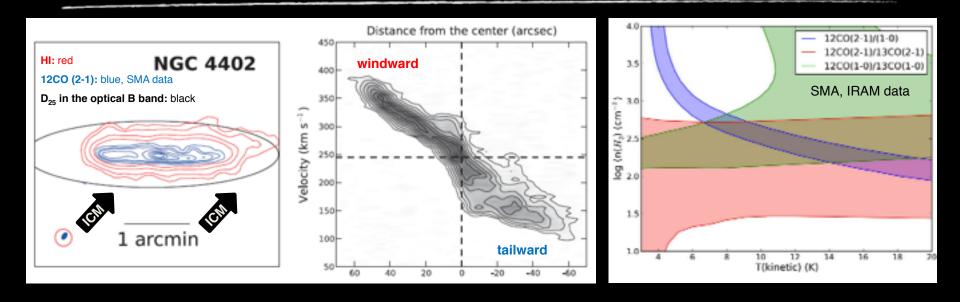
**√ICM BOMBARDS A GALAXY** 

**√ HI GAS IS STRIPPED** 

**√ MOLECULAR GAS SURVIVES?** 



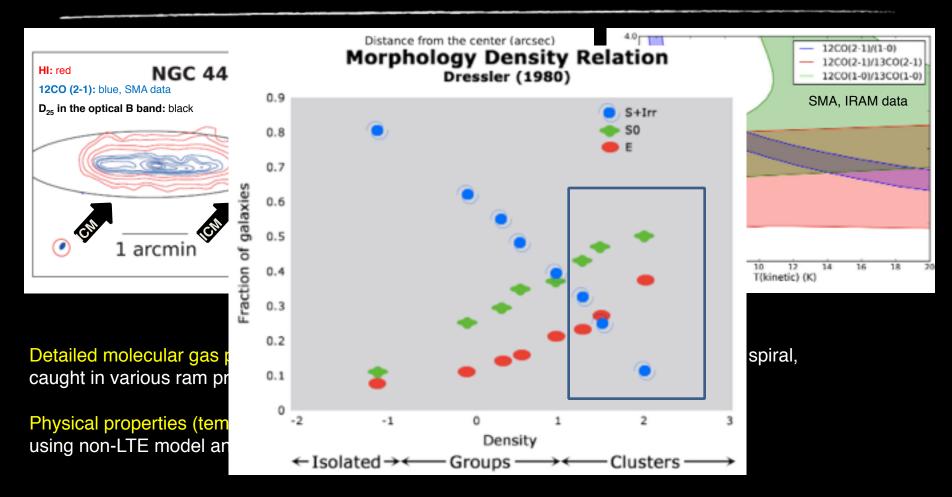
## Molecular gas properties under strong ram pressure



Detailed molecular gas properties (morphology, kinematics, surface density...) of Virgo spiral, caught in various ram pressure stripping stages

Physical properties (temperature, density, ...) of molecular gas using non-LTE model and multiple CO transitions

# Molecular gas properties under strong ram pressure



√ Star formation and galaxy evolution in the cluster environment