

Problem 4: Chemistry on surface

Core of part1

process: gas → dust

Recap for part1

- $O + O \rightarrow O_2$
- $O \rightarrow O_{dust}$
- rate based on loop on dust bins
- $k_{ads,j} = v_j \sum_i x_{d,i} \pi a_i^2 S(T_{gas}, T_{dust,i})$
- `2,O,O_dust,fA(m(idx_O),Tgas)`

KROME Bootcamp 2014 - Writing the function

Good to know

- run ./krome -n your_network ...
- krome_user_commons never replaced by KROME

Put this function in **krome_user_commons**

```
function fA(mass,Tgas)
use krome_commons
use krome_constants
rate = 0
vx = compute thermal speed using the mass variable
LOOP on dust bins
  stick = equation for stick using krome_dust_T array
  rate = rate +
    + expression of krome_dust_asize2 and xdust arrays
END LOOP
end function
```

GOOD WORK!