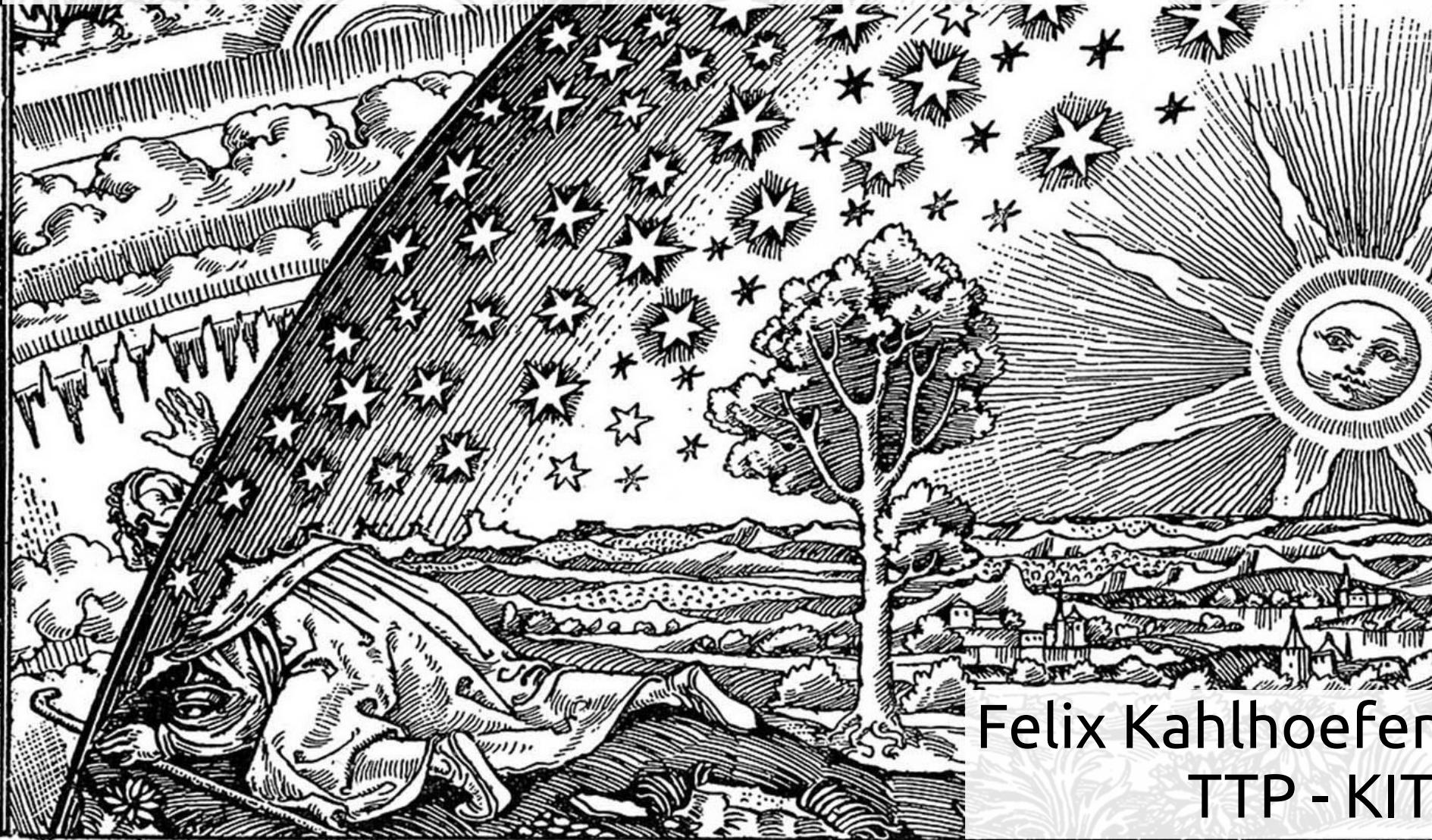


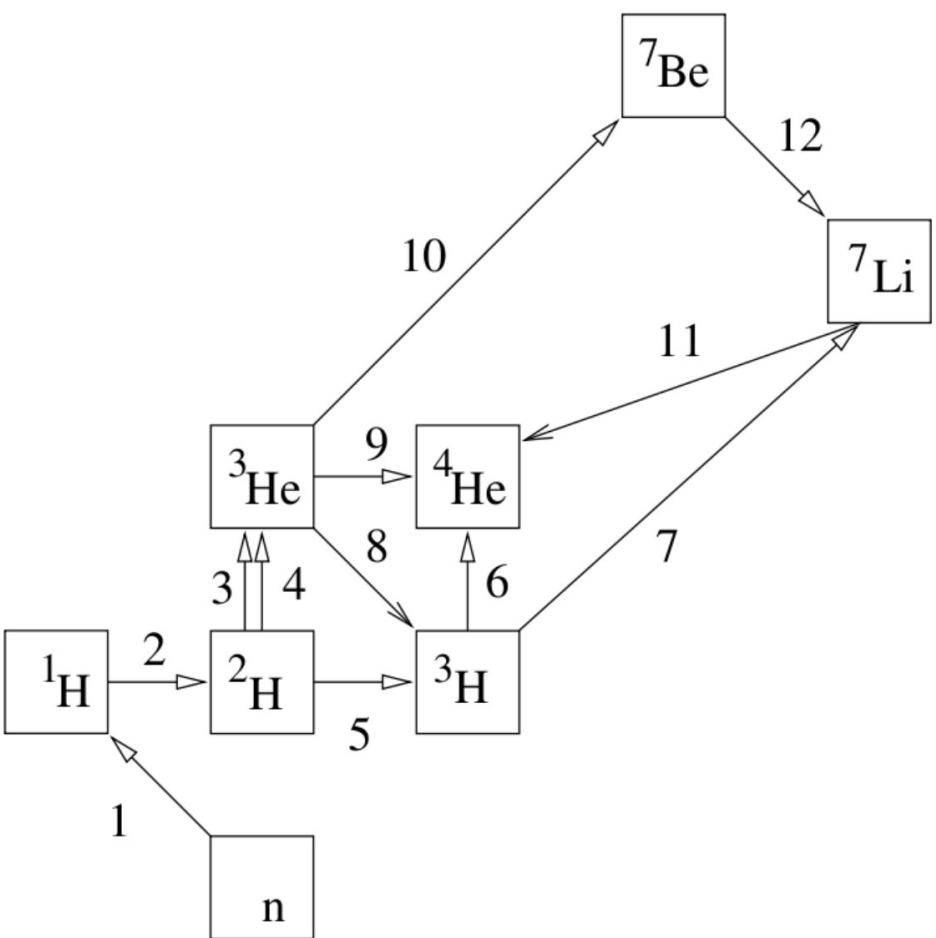
Theoretical Cosmology

Lecture course – Sommersemester 2023



Felix Kahlhoefer
TTP - KIT

Primordial nuclear reactions



1. $p \leftrightarrow n$
2. $p(n, \gamma)d$
3. $d(p, \gamma)^3\text{He}$
4. $d(d, n)^3\text{He}$
5. $d(d, p)t$
6. $t(d, n)^4\text{He}$
7. $t(\alpha, \gamma)^7\text{Li}$
8. $^3\text{He}(n, p)t$
9. $^3\text{He}(d, p)^4\text{He}$
10. $^3\text{He}(\alpha, \gamma)^7\text{Be}$
11. $^7\text{Li}(p, \alpha)^4\text{He}$
12. $^7\text{Be}(n, p)^7\text{Li}$

Element abundances

