# **Corrections**

Below I present a list of corrections on publications where I am involved in. Occasionally, I credit the person who brought this to my attention, but more frequently I may have forgotten the messenger. Comments and further corrections are welcome.

#### Ormel et al. (2007)

Figure 2: The values for the enlargement factor  $\psi$  given here are erroneous.

#### Ormel et al. (2009)

Equation A1: There should not be a factor of  $\pi$  in this equation.

### Ormel & Klahr (2010)

Equation 25: The factor 2 in front of the integral should be removed.

s. above eq.37: The numerical factor should be  $1.5 \times 10^{-2} M_{\oplus} \, \text{yr}^{-1}$ , a factor of 10 smaller than stated.

than stated.

Equation 37: The multiplication operator  $(\times)$  should instead be a division / (Large pebble scaleheight decreases the efficiencies).

• python scripts calculating pebble accretion rate efficiencies are available on github

• Willy Kley had pointed out some of these mistakes to me.

## Ormel & Kobayashi (2012)

Table 4: The third condition should read  $\tau_{\rm fr} \geq \max[\tau^*, \zeta_w]$  and the definition of  $\tau^*$  as stated in the table note should read  $\tau^* = \min(12\zeta_w^3, 2)$ .

Equation C4: This is now superseded by Okuzumi & Ormel (2013) where  $\gamma_t=5\times 10^{-3}\alpha_{\rm ss}^{1/2}$  has been employed. This affects the expressions below.

#### Schoonenberg & Ormel (2017)

Equation 10: The factor 4 should be removed from this equations. The integral over the velocity distribution amounts to

$$\int_0^\infty v P_N \left( v \left| \frac{kT}{\mu_Z} \right. \right) = \frac{1}{4} v_{\text{th,Z}}. \tag{1}$$

where  $P_N$  is the normal distribution. Multiplied by  $4\pi\sigma$ , this gives the rate expression (the factor 4 drops out).

• Note that this expression assumes the ballistic approach limit. At high densities, the rate expression is dictated by the diffusion limit.

• This expression may also be erroneous in some of the cited references above Equation 10.

• Thanks to Til Birnstiel for pointing out this mistake.

Equation 34: This should be  $\dot{M}_{\rm ice}$  instead of  $\dot{M}_{\rm gas}$ .

#### Ormel et al. (2015)

Sect. 2.1 2nd par: The expression for the Coriolis force should read  $F_{cor} = -2\Omega \times v$ , including

the minus sign.

## Visser & Ormel (2016)

Equation 25: The numerical prefactor should read 450 km.

#### Ormel & Liu (2018)

Equation 41: The modulation with  $f_{\text{set}}$  factor has already been applied above. So Equa-

tion 41 just reads:  $\varepsilon = \varepsilon_{\rm set} + \varepsilon_{\rm bal}$ .

### Ormel & Liu (2018)

Table 1: Sign error in the latent heat of silicates,  $u_{\text{evap}}$ , which should read 1.5  $\times$ 

 $10^{11} \,\mathrm{erg}\,\mathrm{g}^{-1}$ .

# Huang & Ormel (2023)

Equation 7: The definition of  $\gamma_I$  is at odds with the literature, where the non-dimensional

torque is usuall defined as  $\gamma=\Gamma/m_p(r\Omega)^2$  with  $m_p$  the planet mass, r the semi-major axis and  $\Omega$  the Keplerian orbital frequency. Therefore, the definition of  $\gamma_I$  in the line below Eq.7 is wrong. It should be inversed. This mistake has affected Figure 8 and 9 and the conclusion (ii) about the  $C_e$ 

parameter. An errata is under way.

#### References

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