

$$\begin{aligned}
& \partial_t[\bullet] = -\Gamma[\nabla]^{cb}_b R[\nabla]_{ac} - \alpha \Gamma[\nabla]^{cb}_b R[\nabla]_{ac} - \Gamma[\nabla]^{cb}_a R[\nabla]_{cb} - \alpha \Gamma[\nabla]^{cb}_a R[\nabla]_{cb} + \kappa \Gamma[\nabla]^{cb}_b T_{ac} - \gamma \kappa \Gamma[\nabla]^{cb}_b T_{ac} - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_b g^{cd} R[\nabla]_{de} T_{ac} - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_d g^{cd} R[\nabla]_{eb} T_{ac} + 2\beta \kappa^2 \Gamma[\nabla]^{cb}_b R[\nabla] T_{ac} + \\
& 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^{de}_f \Gamma[\nabla]^{fb}_b T_{ad} - 2\beta \kappa^2 \Gamma[\nabla]^{dc}_e \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_{ad} - 2\beta \kappa^2 \Gamma[\nabla]^c_{ed} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_a{}^d + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^e_{fd} \Gamma[\nabla]^{fb}_b T_a{}^d - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_c g^{cd} R[\nabla]_{db} T_{ae} - \\
& 4\beta \kappa^2 \Gamma[\nabla]^{eb}_a g^{cd} R[\nabla]_{de} T_{bc} - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_d g^{cd} R[\nabla]_{ea} T_{bc} - 2\beta \kappa^2 \Gamma[\nabla]^c_{ed} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_b{}^d + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^e_{fd} \Gamma[\nabla]^{fb}_a T_b{}^d - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_c g^{cd} R[\nabla]_{da} T_{be} + \kappa \Gamma[\nabla]^{cb}_a T_{cb} - \gamma \kappa \Gamma[\nabla]^{cb}_a T_{cb} + \\
& 2\beta \kappa^2 \Gamma[\nabla]^{cb}_a R[\nabla] T_{cb} + 2\beta \kappa^2 \Gamma[\nabla]^{eb}_d g_{ab} R[\nabla]_{ce} T^{cd} + 2\beta \kappa^2 \Gamma[\nabla]^{eb}_c g_{ab} R[\nabla]_{ed} T^{cd} - \frac{1}{2} \gamma \kappa \Gamma[\nabla]^{db}_e g_{ab} g_{cd} T^{ce} - 2\beta \kappa^2 \Gamma[\nabla]^{db}_e g_{ab} R[\nabla]_{cd} T^{ce} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^{de}_f \Gamma[\nabla]^{fb}_a T_{db} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^{dc}_e \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_{db} + 2\beta \kappa^2 \Gamma[\nabla]^d_{ef} \Gamma[\nabla]^e_{cb} \Gamma[\nabla]^{fb}_a T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{fe} \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{ae} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{be} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{eb} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_d{}^c + \\
& 2\beta \kappa^2 \Gamma[\nabla]^d_{ef} \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{fe} \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{ae} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^d_{ea} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_d{}^c - 2\beta \kappa^2 \Gamma[\nabla]^{dc}_f \Gamma[\nabla]^e_{cb} \Gamma[\nabla]^{fb}_a T_{de} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^{dc}_a \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_{de} - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^d_{bf} \Gamma[\nabla]^{fb}_a T_d{}^e - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^d_{fb} \Gamma[\nabla]^{fb}_a T_d{}^e - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^d_{af} \Gamma[\nabla]^{fb}_b T_d{}^e - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^d_{fa} \Gamma[\nabla]^{fb}_b T_d{}^e + \\
& 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^{de}_a \Gamma[\nabla]^{fb}_b T_{df} - 2\beta \kappa^2 \Gamma[\nabla]^{dc}_e \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_{df} - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_b g^{cd} R[\nabla]_{da} T_{ec} - 4\beta \kappa^2 \Gamma[\nabla]^{eb}_a g^{cd} R[\nabla]_{db} T_{ec} - 2\beta \kappa^2 \Gamma[\nabla]^{dc}_b \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_{ed} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^{dc}_f \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_{ed} - 2\beta \kappa^2 \Gamma[\nabla]^c_{fd} \Gamma[\nabla]^e_{cb} \Gamma[\nabla]^{fb}_a T_e{}^d - 2\beta \kappa^2 \Gamma[\nabla]^c_{bd} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_a T_e{}^d - 2\beta \kappa^2 \Gamma[\nabla]^c_{fd} \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_e{}^d - 2\beta \kappa^2 \Gamma[\nabla]^c_{ad} \Gamma[\nabla]^e_{cf} \Gamma[\nabla]^{fb}_b T_e{}^d - \\
& \frac{1}{2} \gamma \kappa \Gamma[\nabla]^{cb}_e g_{ab} g_{cd} T^{ed} - 2\beta \kappa^2 \Gamma[\nabla]^{cb}_e g_{ab} R[\nabla]_{cd} T^{ed} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^{de}_b \Gamma[\nabla]^{fb}_a T_{fd} - 2\beta \kappa^2 \Gamma[\nabla]^{dc}_e \Gamma[\nabla]^e_{cb} \Gamma[\nabla]^{fb}_a T_{fd} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^e_{bd} \Gamma[\nabla]^{fb}_a T_f{}^d - \\
& 2\beta \kappa^2 \Gamma[\nabla]^c_{ed} \Gamma[\nabla]^e_{cb} \Gamma[\nabla]^{fb}_a T_f{}^d + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} \Gamma[\nabla]^e_{ad} \Gamma[\nabla]^{fb}_b T_f{}^d - 2\beta \kappa^2 \Gamma[\nabla]^c_{ed} \Gamma[\nabla]^e_{ca} \Gamma[\nabla]^{fb}_b T_f{}^d - \gamma \kappa \Gamma[\nabla]^{cb}_b \Theta_{ac} - \gamma \kappa \Gamma[\nabla]^{cb}_a \Theta_{cb} - 2\beta \kappa^2 \Gamma[\nabla]^d_{ce} \Gamma[\nabla]^{eb}_b \partial_a T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^c_{cd} \Gamma[\nabla]^{eb}_b \partial_a T_e{}^d - \\
& 2\beta \kappa^2 \Gamma[\nabla]^d_{ce} \Gamma[\nabla]^{eb}_a \partial_b T_d{}^c + 2\beta \kappa^2 \Gamma[\nabla]^c_{cd} \Gamma[\nabla]^{eb}_a \partial_b T_e{}^d + 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_e{}^d \partial^b \Gamma[\nabla]^c_{ad} + 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_e{}^d \partial^b \Gamma[\nabla]^c_{bd} - 2\beta \kappa^2 \partial_a T_b{}^d \partial^b \Gamma[\nabla]^c_{cd} - 2\beta \kappa^2 \partial_b T_a{}^d \partial^b \Gamma[\nabla]^c_{cd} - 2\beta \kappa^2 \Gamma[\nabla]^{de}_b T_{ad} \partial^b \Gamma[\nabla]^c_{ce} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^e_{bd} T_a{}^d \partial^b \Gamma[\nabla]^c_{ce} - 2\beta \kappa^2 \Gamma[\nabla]^e_{ad} T_b{}^d \partial^b \Gamma[\nabla]^c_{ce} - 2\beta \kappa^2 \Gamma[\nabla]^{de}_a T_{db} \partial^b \Gamma[\nabla]^c_{ce} + 2\beta \kappa^2 \Gamma[\nabla]^d_{ab} T_d{}^e \partial^b \Gamma[\nabla]^c_{ce} + 2\beta \kappa^2 \Gamma[\nabla]^d_{ba} T_d{}^e \partial^b \Gamma[\nabla]^c_{ce} + 2\beta \kappa^2 \Gamma[\nabla]^f_{de} g_{ab} T^{ed} \partial^b \Gamma[\nabla]^c_{cf} + \\
& 2\beta \kappa^2 \Gamma[\nabla]^d_{de} g_{ab} T^{fe} \partial^b \Gamma[\nabla]^c_{cf} + 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_a{}^d \partial^b \Gamma[\nabla]^c_{ed} + 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_b{}^d \partial^b \Gamma[\nabla]^c_{ed} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_d{}^e \partial^b \Gamma[\nabla]^d_{ab} - 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_d{}^c \partial^b \Gamma[\nabla]^d_{ae} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_d{}^e \partial^b \Gamma[\nabla]^d_{ba} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_d{}^c \partial^b \Gamma[\nabla]^d_{be} + 2\beta \kappa^2 \partial_b T_d{}^c \partial^b \Gamma[\nabla]^d_{ca} + 2\beta \kappa^2 \partial_a T_d{}^c \partial^b \Gamma[\nabla]^d_{cb} + 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_{de} \partial^b \Gamma[\nabla]^{dc}_a + 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_{ed} \partial^b \Gamma[\nabla]^{dc}_b + 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_{ad} \partial^b \Gamma[\nabla]^{dc}_e + 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_{db} \partial^b \Gamma[\nabla]^{dc}_e + \\
& 2\beta \kappa^2 \Gamma[\nabla]^c_{cf} g_{ab} T^{fe} \partial^b \Gamma[\nabla]^d_{de} - 2\beta \kappa^2 \Gamma[\nabla]^e_{cb} T_d{}^c \partial^b \Gamma[\nabla]^d_{ea} - 2\beta \kappa^2 \Gamma[\nabla]^e_{ca} T_d{}^c \partial^b \Gamma[\nabla]^d_{eb} - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_{db} \partial^b \Gamma[\nabla]^{de}_a - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_{ad} \partial^b \Gamma[\nabla]^{de}_b - 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_b{}^d \partial^b \Gamma[\nabla]^e_{ad} - \\
& 2\beta \kappa^2 \Gamma[\nabla]^c_{ce} T_a{}^d \partial^b \Gamma[\nabla]^e_{bd} + 2\beta \kappa^2 \Gamma[\nabla]^c_{ed} T_b{}^d \partial^b \Gamma[\nabla]^e_{ca} + 2$$