

## ERRATA FOR “GENERALIZED RICCI FLOW”

- Chapter 4
  - (1) page 76, every instance of  $\phi_{t*}$  should read  $\phi_t^*$ .
- Chapter 5
  - (1) page 95, the displayed equation in the statement of Lemma 5.11 should read

$$\left(\frac{\partial}{\partial t} - \Delta\right) R = -\frac{1}{2}\Delta |H|^2 + \frac{1}{2}\operatorname{div} \operatorname{div} H^2 + 2\langle \operatorname{Rc}, \operatorname{Rc} - \frac{1}{4}H^2 \rangle.$$

- (2) page 104, the first displayed equation of Proposition 5.21 should read

$$\sup_{M \times [0, \frac{\alpha}{K}]} |\operatorname{Rm}| + |H|^2 \leq K.$$

- (3) page 104, the second displayed equation of Proposition 5.21 should read

$$\sup_{M \times t} t |\nabla H|^2 \leq CK \max\{\alpha, 1\}.$$

- (4) page 104, the final displayed equation in the proof of Proposition 5.21 should read

$$\begin{aligned} \left(\frac{\partial}{\partial t} - \Delta\right) t |\nabla H|^2 &\leq -2 |\nabla^2 H|^2 + (1 + CtK) |\nabla H|^2 + t |\nabla \operatorname{Rm}|^2 \\ &\leq -2 |\nabla^2 H|^2 + C \max\{\alpha, 1\} |\nabla H|^2 + t |\nabla \operatorname{Rm}|^2. \end{aligned}$$

- (5) page 104, the final paragraph of the proof of Proposition 5.21 should read: Let  $F = t \left( |\nabla H|^2 + |\operatorname{Rm}|^2 \right) + A |H|^2$ , where  $A > 1$ . Combining Lemma 5.12, the evolution equation for  $|H|^2$  from Proposition 5.20, the above estimate and the Cauchy-Schwarz inequality, we obtain

$$\left(\frac{\partial}{\partial t} - \Delta\right) F \leq (C \max\{\alpha, 1\} - 2A) |\nabla H|^2 + CAK^2.$$

Choosing  $A \geq C \max\{\alpha, 1\}$ , the result follows from the maximum principle.

- (6) page 105, line -7, ‘...by applying Theorem 5.18 on...’ should be replaced with ‘...by applying Proposition 5.20, 5.21, and Theorem 5.18 on...’
- Chapter 6
    - (1) page 116, line -3, ‘...constant term (see (6.12), the computation...’ should read ‘...constant term (see (6.12)), the computation...’

- (2) page 119, the second displayed equation in the statement of Theorem 6.20 should read

$$\square^* v_- = -2(T-t) \left( \left| \text{Rc} - \frac{1}{4}H^2 + \nabla^2 f_- - \frac{g}{2(T-t)} \right|^2 + \frac{1}{4} |d^*H - \nabla f \lrcorner H|^2 \right) + \frac{1}{6} |H|^2 u.$$

- (3) page 121, in the displayed equation in the statement of Proposition 6.26, ' $\frac{\partial}{\partial t}$ ' should be ' $\frac{d}{dt}$ '
- (4) page 121, the final sentence before the displayed equation in the statement of Proposition 6.26 should read: 'Let  $u_t$  be a solution to the conjugate heat equation, and let  $f_-$  be defined by  $u = \frac{e^{-f_-}}{(4\pi\tau)^{\frac{n}{2}}}$ , where  $\tau = T - t$ . Then we have'
- (5) page 121, in the statement of Proposition 6.27 the word 'unique' should be removed.
- Chapter 7
    - (1) page 142, in the final line, ' $g(\cdot, J\cdot)$ ' should be ' $g(J\cdot, \cdot)$ '.
    - (2) page 154, in second sentence of Example 7.73 should read: 'Let  $g$  denote a bi-invariant metric on  $K$ .'
  - Chapter 8
    - (1) page 166, in the third displayed equation the right hand side should be  $-\sqrt{-1}\partial\omega$ .
    - (2) page 177, in the statement of Theorem 8.26 the word 'pluriclosed' is misspelt.