"Numerical characterization of the Kähler cone of a compact Kähler manifold" by Demailly and Paun

Corrections and suggestions:

• The main theorems are all stated twice, once in the introduction and again in the body with different numbers. This redundancy should be eliminated. For example, on page 12, say: "We now can prove Theorem 0.4. Let (X, ω) be a compact Kähler manifold ..."

p. 2: The fact that $\mathcal{K} = \mathcal{P}$ for projective manifolds is interesting in itself, and could be emphasized by stating it as a corollary.

p. 6 et. seq.: The positive currents defined here are usually called *strongly positive currents*. (The "positive currents" in [Dem92] are *weakly positive*.) To eliminate confusion, they should be called *strongly positive* here and elsewhere (including Prop. 2.6).

p.7, l. 6: "big and nef" should be "big-nef" since big cohomology classes are not defined here.

p.7, statement of Lemma 2.1: ψ_ϵ is C^∞ on X.

p. 17, l. 4: Explain to the reader how to pull back a Kähler current.

p.17: The "reason" for Lemma 3.5 should be replaced with a complete proof. What is u_{j+1}?

p.19, l. -11: "trivial to derive" should be "trivial to derive from Theorem 4.1"

p. 21, Prop. 4.6: The proposition doesn't make sense unless X is Kähler.

Typos:

p. 4, l. -2: hepfull

p. 7, l. 9: "start by" should be "start with"

p.12, l. 11–12: use another letter in place of λ, to avoid confusion with (2.7').

p.13, l. -13: "positive current" should be "positive (1,1) current" (although the result also holds for (p, p) currents by diagram chasing).

p. 18, Main Theorem: "an" should be "on"

p. 18, l. -2: "belong" should be "belongs"

p. 23, l. -4: "starts" should be "stars"