## Remarks and Responses

**Remark 1:** The topology of the space of currents  $D^p(X)$  (see e.g., Prop. 1.2, 2.6) is defined as follows: a sequence converges to a current if it converges weakly and the sequence of \*-norm is bounded. That is, you can write each element of the sequence as the difference of two positive closed currents of bounded masses. This point is important.

Response 1: Fixed.

**Remark 2:** It seems that when we say that the Hodge group  $H^{p,q}$  is the Dolbeault group, people in algebraic geometry don't like it. For them, these groups are only isomorphic to Dolbeault groups.

Response 2: I see. I've changed the equality on Page 3 into an isomorphism.

Remark 3: Corollary 2.9: Is it a consequence of 2.8?

**Response 3:** Yes, because locally we have an isomorphism when we don't intersect the exceptional divisors.

**Remark 4:** Lemma 5.6: I guess you assume that the first intersection is transversal. Did you prove that the intersection is independent of the choice of  $H_i$ ? It seems to me that the inequality is actually an equality, as currents with continuous superpotentials have no mass on divisors.

**Response 4:** Ah you're right! I've clarified the assumption about transversality, however, even in the transversal case

$$\overline{\mathscr{T}}_{\mathrm{aff}(\sigma)} \leq \overline{\mathscr{T}_{H_1} \wedge \cdots \wedge \mathscr{T}}_{H_{n-p}},$$

and the choice of  $H_i$  matters, but we only need the inequalities here. It is discussed later that the 'angles' between  $H_i$  give rise to multiplicities.

Regarding the second comment, we prove a more general case later. At this stage, I only needed the inequality to establish continuity of the superpotential, deferring equality until we address the general case in Proposition 5.9.

**Remark 5:** The proof of Lemma 5.7 seems correct. However, should you clarify the choice of  $\widehat{\Sigma}$ , which depends on  $\Sigma$ ? The notion of compatibility between  $\widehat{C}$  and  $\widehat{\Sigma}$  seems slightly different from Definition 5.1.

**Response 5:** I've added that  $\widehat{\Sigma}$  is a refinement of  $\Sigma$  satisfying the required compatibility.

**Remark 6:** In Definition 3.2: Did you mix up  $\tau$  and  $\sigma$ ?

**Response 6:** Yes, you're correct. Fixed it. With the new numbering, this is Definition 3.2.

**Remark 7:** For Definition 3.3, by "top dimension," do you mean the "expected top dimension"? The intersection may have a dimension lower than expected. The notation  $\sigma_1 \cap \sigma_2$  is a bit confusing. Maybe we shouldn't specify  $\sigma_1, \sigma_2$  explicitly here, as they are not unique? Also, what do you mean by a "generic" v? I only see that v is in some open set, which could potentially be small. Am I missing something?

Response 7: I agree it's a bit confusing, but it's a standard definition. The condition  $\dim(\sigma_1 + \sigma_2) = n$  fixes everything. Indeed, there is a lemma justifying why it makes sense. Basically, you're correct: we perturb  $C_1$  by selecting a vector v in some suitable open subset of  $\mathbb{R}^n$  (typically  $\mathbb{R}^n \setminus \{C_1 \cup C_2\}$ ), ensuring the intersection becomes transversal. We then show that the intersection is continuous and independent of this choice of v. This procedure is analogous to SP-convergence. This is the content of Theorem 3.5.

If you prefer, we can just define the stable intersection as the limit of

$$C_1 \cap \epsilon v + C_2$$

as  $\epsilon \to 0$  and mention as a theorem in tropical geometry that the definition doesn't depend on the generic choice of v.