Errata to "Instantons and odd Khovanov homology" J. Topol., 8(3):744–810,2015. Christopher W. Scaduto

The following are (easy to correct) errors in the published version of the above-titled paper.

- 1. In the grading formula for Theorem 1.1, $\sigma/2$ should be replaced by $\sigma/2 + 2\sigma$. This follows from the correction listed in item 3 below. This correction only affects the $\mathbb{Z}/4$ -grading by an overall shift. The term $\delta^{\#}$, (8.1) and the equation following the statement of Lemma 8.5 should similarly be shifted by $2\sigma \pmod{4}$.
- 2. In the statement of Thm 2.2, either m = 1 or all bundles should be *non-trivial* admissible. This is because when there are trivial connections around, the maps defined using families of metrics of dimension 4 are not well-defined, for lack of compactness. In the same vein, Eqs. (13), (14), (15) should be restricted to non-trivial admissible bundles, or have dim $G \leq 2$. Thm 6.1, a restatement of Thm 2.2, should be similarly amended. This restriction of hypotheses does not affect any of the main results of the paper in the introduction.
- 3. The statement of Lemma 8.5 should be corrected to read $\mathcal{P}(\mathbb{X}_{\infty 1}) \equiv n_{-} \pmod{2}$. Although one can proceed with the approach of the proof there, by more carefully computing the intersection number of the surface, here is the quickest way to correct: by additivity, $\mathcal{P}(\mathbb{X}_{\infty 1}) \equiv \mathcal{P}(\mathbb{X}_{\infty v})$ (mod 2), where v is the *oriented* resolution of D, and $\mathcal{P}(\mathbb{X}_{\infty v}) \equiv n_{-} \pmod{2}$ since $X_{\infty v}$ is a spin 4-manifold V (the one obtained by attaching 2-handles for the oriented resolution) blown up $|v|_1 = n_-$ many times, each with non-trivial bundle over $-\mathbb{CP}^2$.
- 4. The sign of a_q in the Jones polynomial, right before section 9, is off by $(-1)^{\sigma}$. This cancels with the grading shift in item 1 to leave the statement of Corollary 1.2 unchanged.
- 5. In Lemma 5.5, $H^2(E)$ should have rank 2, since E is homeomorphic to $-\mathbb{CP}^2 \# S^2 \times D^2$; but this doesn't change the argument, which only has to do with $P(E) = H^2(E, \partial E)$, of rank 1.

Please contact me if you have any questions or other corrections.