1043-05-28 **Mark N. Ellingham*** (`mark.ellingham@vanderbilt.edu`) and **Adam Weaver**. *Counting minimum genus embeddings of $K_{3,n}$.*

Minimum genus embeddings of $K_{3,n}$ can be represented in terms of certain Tait colorings of cubic graphs. We apply this, together with a result of Hanlon, Stanley and Stembridge and some other ideas, to count all minimum genus embeddings of $K_{3,n}$ in both the orientable and nonorientable cases. (Received July 22, 2008)