1163-57-663 **Scott A Taylor***, scott.taylor@colby.edu, and **Maggy Tomova**, maggy-tomova@uiowa.edu. *A new look at bridge number*. Preliminary report.

Bridge number is a classical knot invariant which can be defined as the minimum number of maxima of a knot, with the minimum taken over all height functions on the knot. By drawing on connections with thin position theories, we recently gave a different, but equivalent, definition of bridge number. As a result of this new perspective, we are able to give new proofs of Schubert's theorems that bridge number is "-1 additive" under connected sum and that the bridge number of a satellite knot is bounded below by the product of the bridge number of the companion and the wrapping number of the pattern. (Received September 11, 2020)