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Ivona Grzegorzcyk* (ivona.grze@csuci.edu), Dept. of Mathematics, California State University Channel Islands, One University Drive, Camarillo, CA 93012. *Vector bundles with sections on algebraic curves*. Preliminary report.

We study moduli spaces of stable vector bundles on smooth algebraic curves. We will report on the current state of the Brill-Noether problem, including new examples for bundles of $\text{rk} = 2$. We will show new results for calculating dimensions of moduli spaces of stable bundles with fixed determinants, or more general for certain coherent systems. (Received September 24, 2012)