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James Phillips* (jp5ay@virginia.edu). *Covers of elliptic curves and good reduction.*

Raynaud gave a criterion for a branched G -cover of curves defined over a mixed-characteristic discretely valued field K with residue characteristic p to have good reduction in the case of either a three-point cover of \mathbb{P}^1 or a one-point cover of an elliptic curve. Specifically, such a cover has potentially good reduction whenever G has a Sylow p -subgroup of order p and the absolute ramification index of K is less than the number of conjugacy classes of order p in G . In the case of an elliptic curve, we generalize this to the case in which G has an arbitrarily large cyclic Sylow p -subgroup. (Received July 22, 2017)