Let $\mathfrak{g}$ be an affine Kac–Moody algebra and $U'_q(\mathfrak{g})$ be the associated quantized affine algebra. Kirillov–Reshetikhin modules are finite dimensional $U'_q(\mathfrak{g})$-modules labeled by a node $r$ of the Dynkin diagram together with a nonnegative integer $s$. It is expected that each Kirillov–Reshetikhin module has a crystal basis. In this talk, we focus on type $E_6^{(1)}$ for which Chari has given the decomposition of Kirillov–Reshetikhin modules into classical highest-weight modules. We extend the classical crystals for these modules to give an explicit combinatorial realization of the Kirillov–Reshetikhin crystals when $r$ is 1, 6 or 2 in the Bourbaki labeling and $s$ is arbitrary. This realization is based on the technique of promotion that has been used for other types by Shimozono and Fourier, Okado, Schilling.

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