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Mihai Popa* (mipopa@indiana.edu), IU Bloomington, Rawles Hall 309, 831 E 3rd Street,
Bloomington, IN 47405. *On the conditionally free analogue of the S-transform.*

Using the combinatorics of non-crossing partitions, we construct a conditionally free analogue of the Voiculescu's S-transform. The result is applied to analytical description of conditionally free multiplicative convolution and characterization of infinite divisibility. (Received August 26, 2008)