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Eduard Einstein and **Thomas Ng*** (thomas.ng.math@gmail.com). *Small cancellation free products are relatively cubulated.*

Small cancellation theory is a major source of cocompactly cubulated groups. $C'(1/6)$ small cancellation free products are a family of quotients of free products that act on a Gromov hyperbolic polygonal complex and have been used to exhibit infinite families of groups with exotic embedding properties. When the factor groups are assumed to act geometrically on a $CAT(0)$ cube complex, Martin and Steenbock showed that such $C'(1/6)$ free products are again cocompactly cubulated. I will describe joint work with Eduard Einstein proving that arbitrary $C'(1/6)$ free products are always relatively cubulated. As a result, we obtain an infinite family of relatively cubulated groups that cannot be cocompactly cubulated. Another consequence of our work is that residual finiteness is closed under taking $C'(1/6)$ free products. (Received January 24, 2022)