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Yakov Shlapentokh-Rothman* (yshlapen@math.princeton.edu). *Naked Singularities for the Einstein Vacuum Equations.*

We will start by recalling the weak cosmic censorship conjecture. Then we will review Christodoulou's construction of naked singularities for the spherically symmetric Einstein-scalar field system. Finally, we will discuss joint work with Igor Rodnianski which constructs spacetimes corresponding to a naked singularity for the Einstein vacuum equations. (Received January 18, 2021)