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Lara Bossinger, Man Wai Cheung* (mwcheung@math.harvard.edu), **Juan Bosco Frías Medina, Tim Magee** and **Alfredo Nájera Chávez**. *Batyrev-Borisov construction for cluster varieties*.

Cluster varieties are blow up of toric varieties. They come in pairs (A, X) , with A and X built from dual tori. Compactifications of A , studied by Gross, Hacking, Keel, and Kontsevich, generalize the polytope construction of toric varieties while the compactifications of X , studied by Fock and Goncharov, generalize the fan construction. The conjecture is that the A and the X cluster varieties are mirrors to each other. Together with Bossinger, Frías Medina, Magee, and Nájera Chávez, we worked on the Batyrev-Borisov construction for cluster varieties. (Received January 16, 2019)