Minkowski decomposition of Okounkov bodies

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In recent years, the construction of Okounkov bodies for big line bundles on normal projective varieties introduced by Lazarsfeld and Musţată and independently by Kaveh and Khovanskii has raised quite a lot of interest. These convex bodies carry important information on the sections of multiples of the line bundle. Unfortunately, they are notoriously hard to determine. I report on results of joint work with P. Łuszcz-Świdecka and P. Pokora, S. Urbinati concerning a new approach to describing these bodies as Minkowski sums of simple "builing blocks". I will also mention an application on the problem of polyhedrality of global Okounkov bodies appearing in joint work with H. Seppänen.