# On a monomial decomposition of a complex polynomial 

Miloš Arsenović ${ }^{1}$ and Radoš Bakić ${ }^{2}$<br>${ }^{1}$ Department of Mathematics, Belgrade University, Belgrade 11000 Belgrade, Serbia, arsenovic@matf.bg.ac.rs<br>${ }^{2}$ Teacher Education Faculty, Belgrade University, Belgrade 11000 Belgrade, Serbia, bakicr@gmail.com

Let $p(z)$ be a complex polynomial of degree $n$. We study conditions for representing this polynomial as the arithmetic mean of monomials $\left(z-z_{i}\right)^{n}, 1 \leq i \leq n$. We prove the corresponding uniqueness and existence reslut. We also give estimation of the parameters $z_{i}$ in terms of the coefficients of the given polynomial $p(z)$.

