

**PROVISION OF OPTIMUM REQUIREMENTS
FOR PREPARATION OF THIN FREE TARGETS FROM ISOTOPES
OF CHROMIUM, SCANDIUM, ZIRCONIUM, IRON, COPPER**

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Free films (targets) from high-melting chromium, scandium, zirconium, iron, copper isotopes of textured structures are prepared and explored by the method of thermal sputtering. About 2 cm² films of $\leq 0,5$ mg/cm² thickness with homogeneity about 1 % and high cleanness ensure the opportunity to study nuclear reactions with the required precision measurement accuracy.