



Laserová ablace I/III - princip

» explozivní interakce zaostřeného laserového záření s povrchem pevného materiálu

➤ 2 mechanismy

– termický (odpaťování) < 10^6 W/cm² – netermický (ablace) > 10^9 W/cm²







Indukčně vázané plazma l/w - princip

- ⊁ tvorba ablatovaného materiálu LA
- transport nosným plynem do ICP LA
- ➤ sekundární atomizace, excitace a ionizace materiálu
- ➤ excitace → monochromatizace záření (mřížka) → detekce
- \succ ionizace → separace částic dle m/z (MS analyzátory) → detekce













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LA-ICP-MS zobrazování V/x111 - p	ostup
sample preparation tumor resection freezing in liquid N ₂ crystections; storing at -20 'C	measurement











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Aplikace LA-ICP-MS > Studium koroznich procesů > Studium distribuce v geologických materiálech > Mapování biologických materiálů





























<u>Comparison</u>	of standardizatior	n methods
type of sample	internal standardization	sum oxide standardization
homogeneous CRM	+	+
homogeneous sample	+	+
non-homogeneous sample	-	+













