A Posteriori Error Control of FBPs

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A posteriori error estimators are computable quantities depending on the discrete solution(s) and data, which provide upper (and lower) bounds for the error; they are thus instrumental for adaptivity. This talk will assess the derivation of a posteriori error estimators in the context of free boundary problems. The discussion will be based on simple examples, from contact problems to curvature driven flows and crystal growth, and will address both space and time discretization as well as both energy and maximum norm estimates (including interface error estimates).