

CERAMIC NUCLEAR FUEL CLADDING BY SSiC HOLLOW BODIES

A possibility to manufacture
- **accident-tolerant** and
- **disposal-preconditioned**
nuclear fuel elements:



Ceramic nuclear fuel cladding with SSiC hollow bodies

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We propose as innovative solution for accident-tolerant fuel:

ENCAPSULATION IN CERAMICS!

Instead of the metallic cladding, robust SSiC hollow bodies are manufactured, filled with fuel (preferably TRISO coated particles in an appropriate matrix or sintered UO_2 pellets) and hermetically sealed with an SSiC lid by laser beam joining.