Single crystalfiber growth and sensing applications ib energy

Gpeaker: Michael B**`¦&ÂÛœ-ÂÛ&A`} @A** ÞÒVŠÂÜØËTÒT

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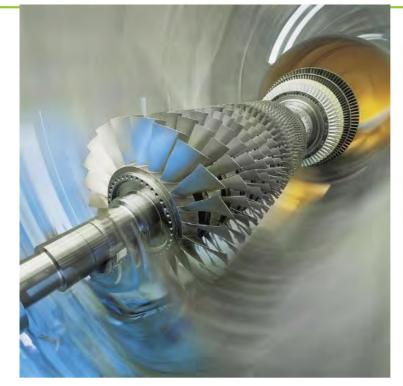
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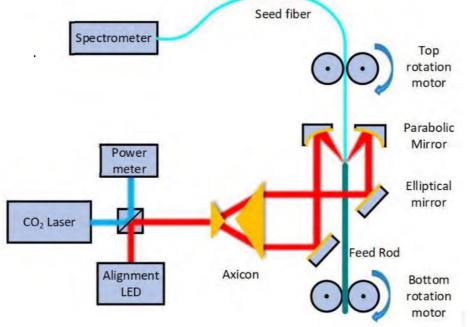
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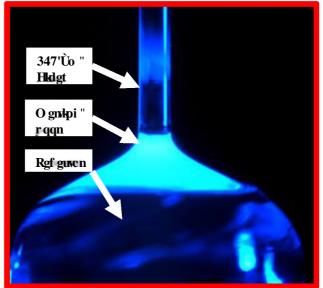
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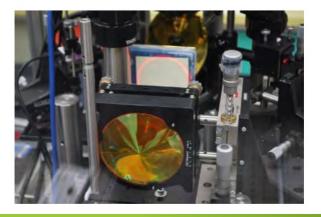
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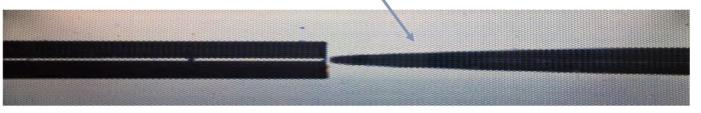
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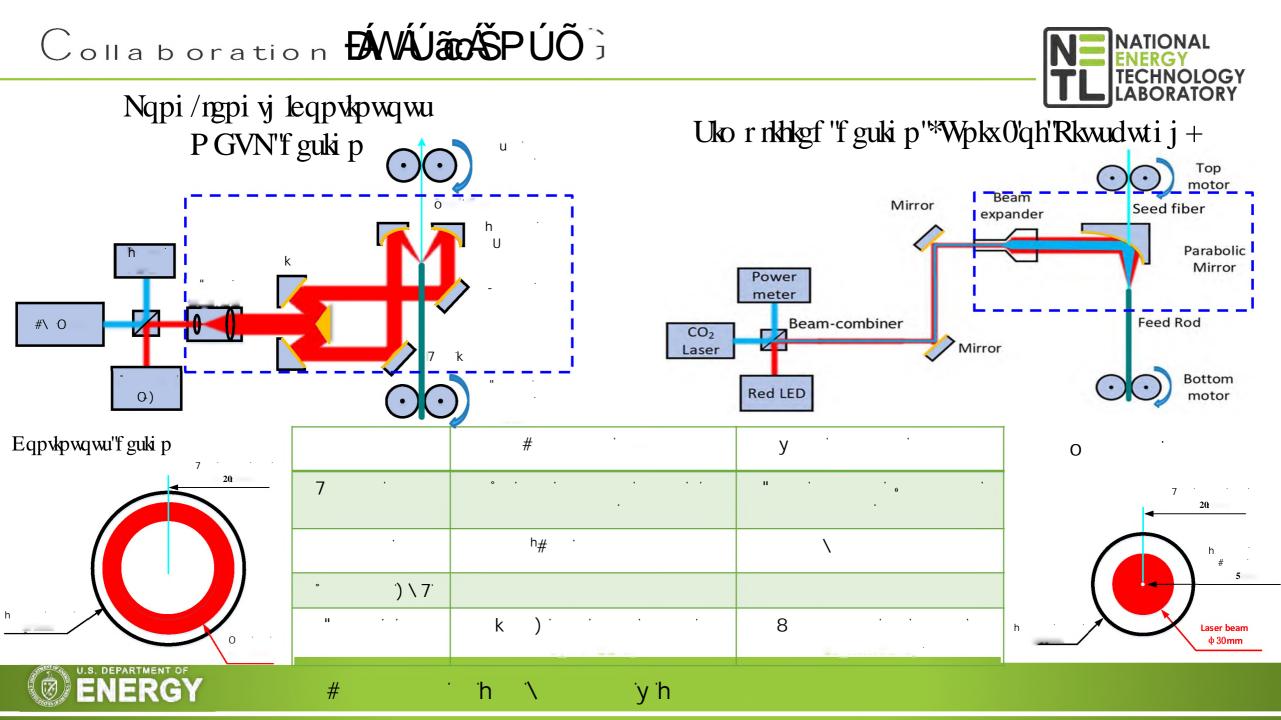
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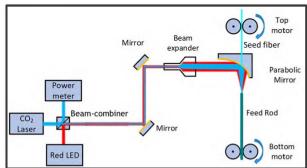
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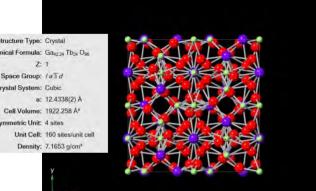
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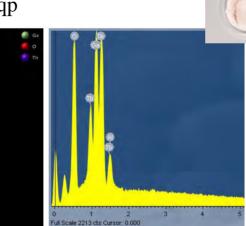
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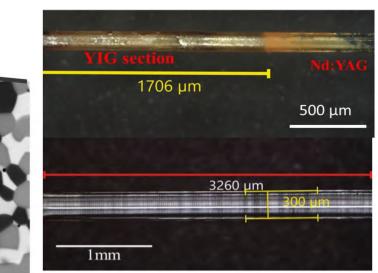
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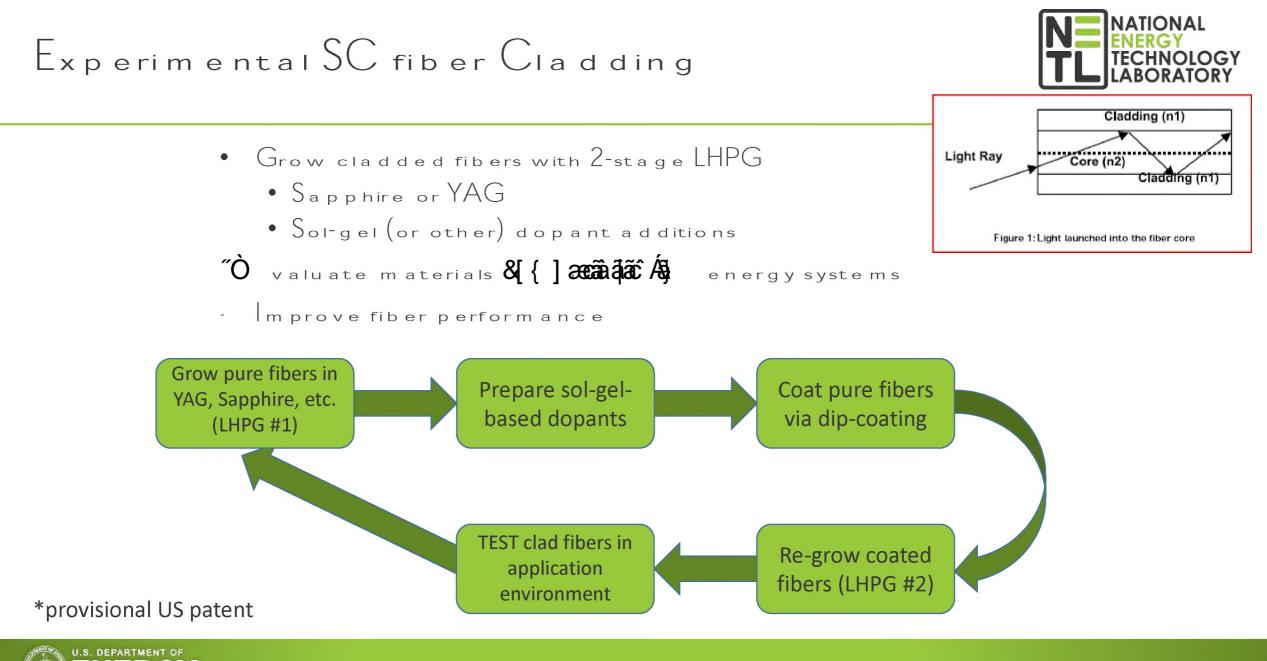
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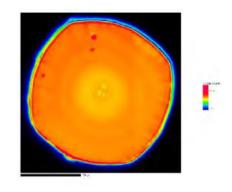
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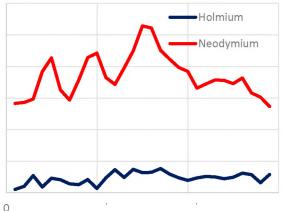




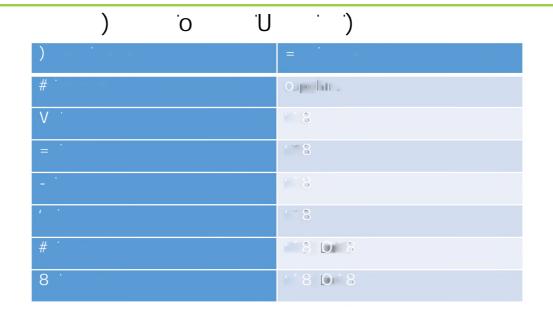
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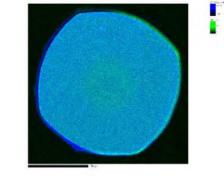


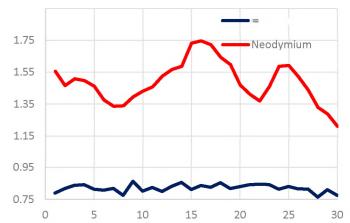




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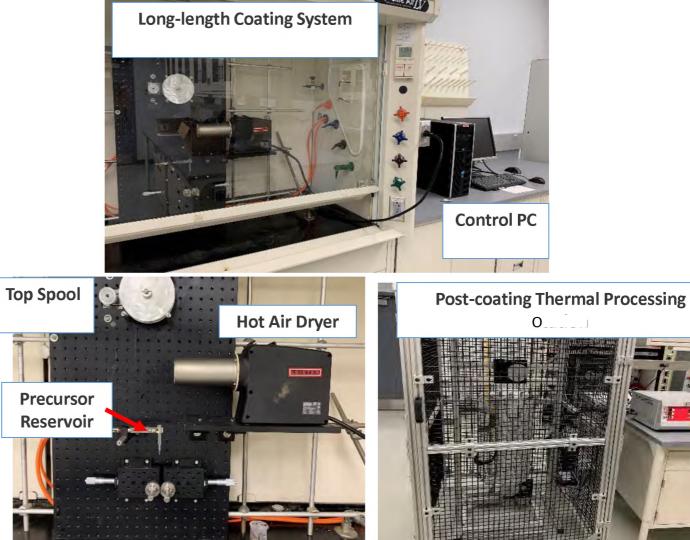


Reel-to-Reel sol-gel processing system for cladding

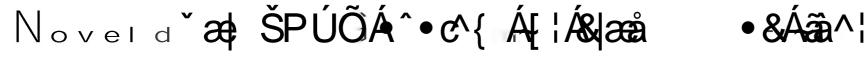
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- - processing Ç^¦Cabe ~¦}æ&^Á,ão@ 1200°C mæ¢ temperature.
- Processed fiber used for re-* [[, OAR) A[]_aa) aC , åãc dãa čáa]

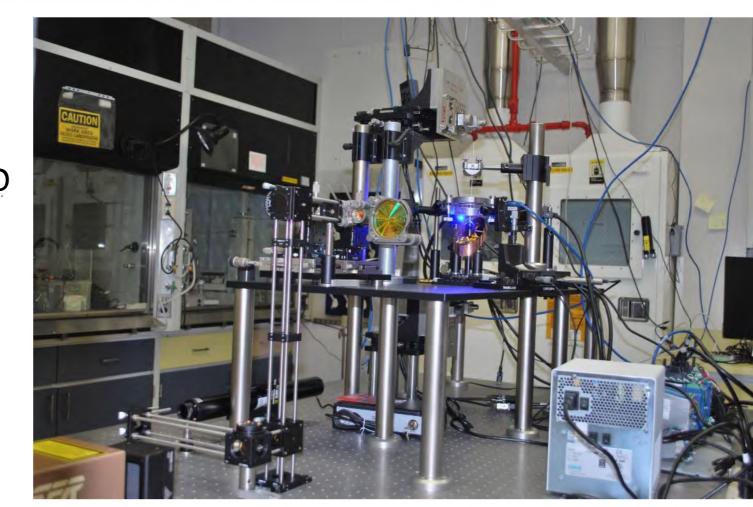






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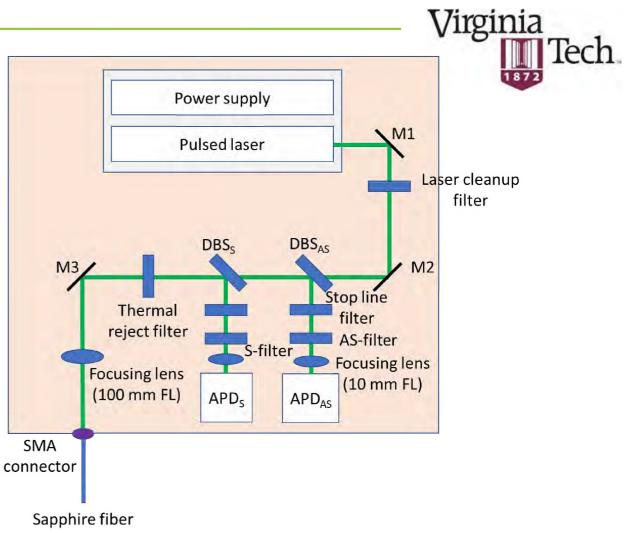




How a } SC-fiber becomes a T-sensor



- / Introducing the NETL Raman DTS (**åã c'ãa` c^å** = te {] **^ ¦æč ¦^** sensor)
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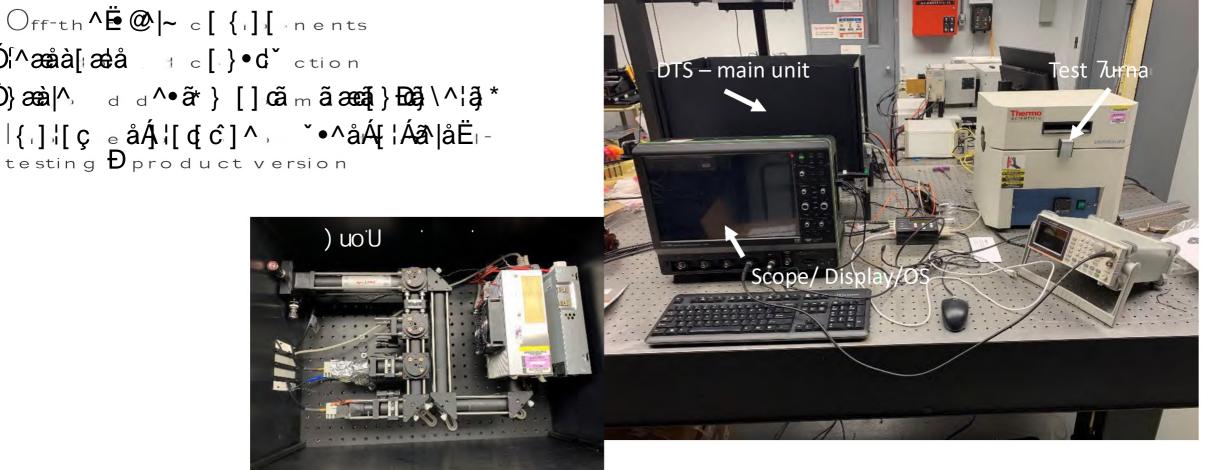




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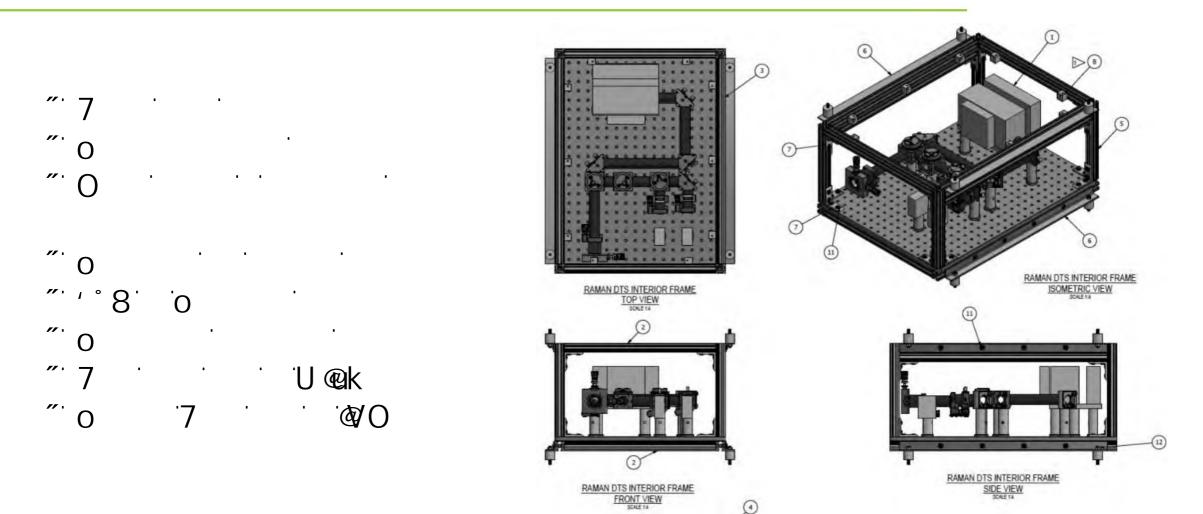
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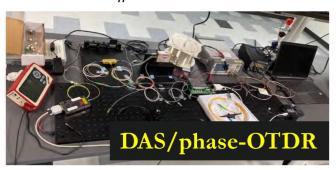


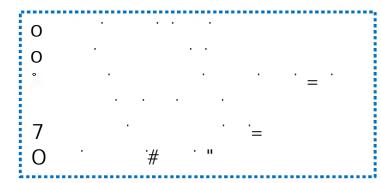


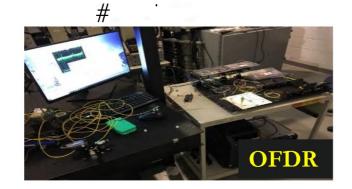
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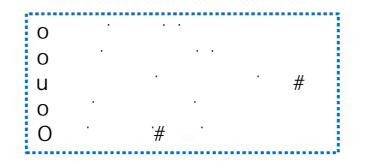
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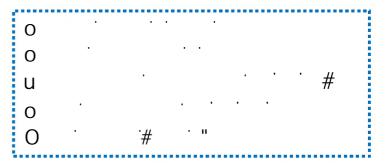


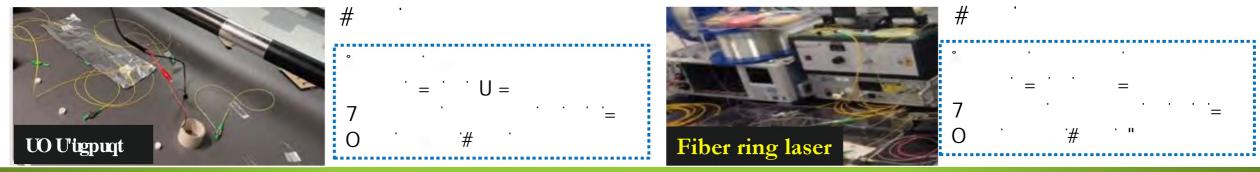






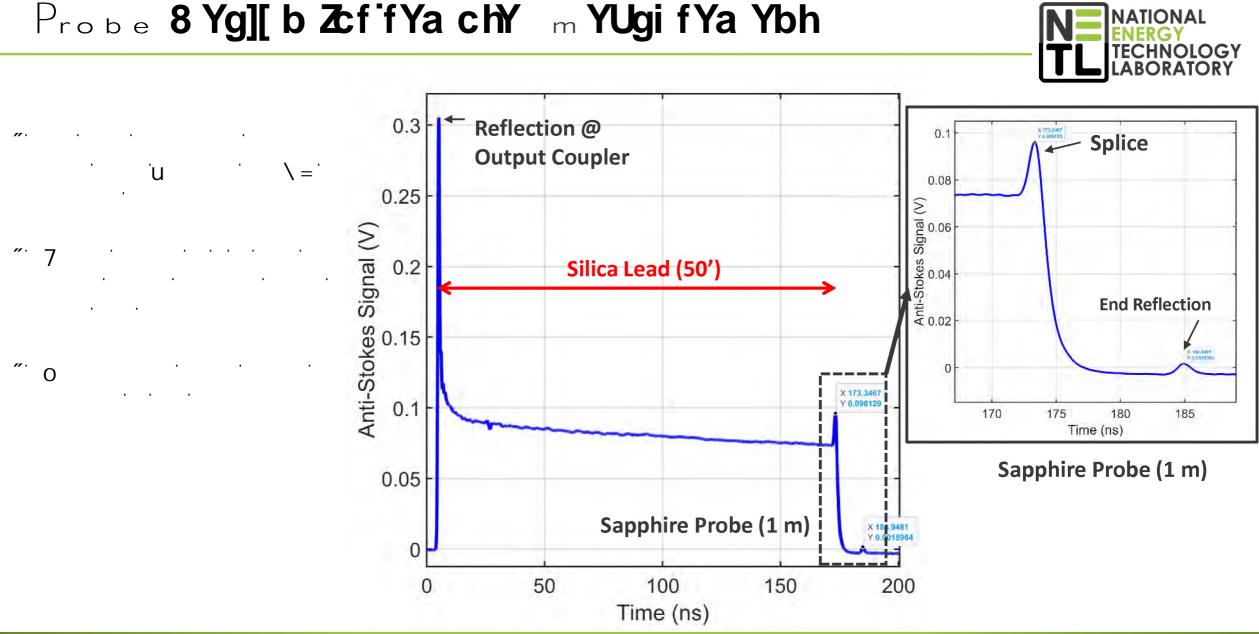








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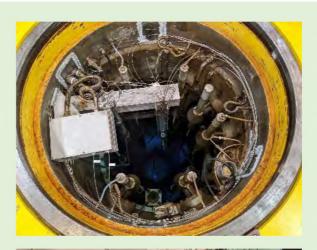
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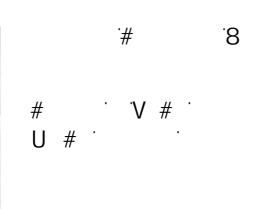
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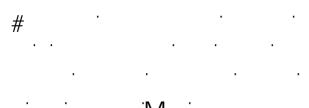










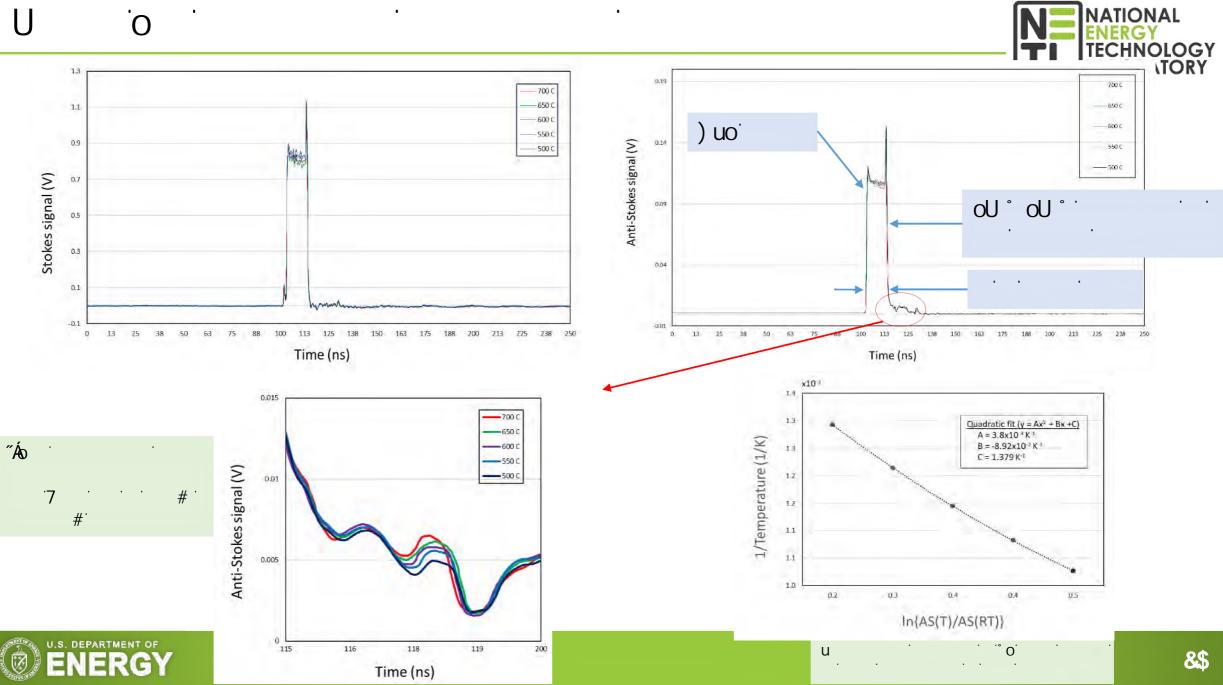


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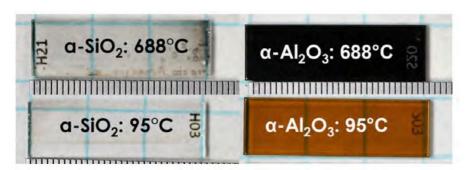
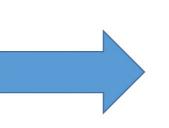


Fig. 5: Optical transparency of silica and sapphire after accumulating a fast neutron fluence of $2.4 \times 10^{21} n_{fast}/cm^2$





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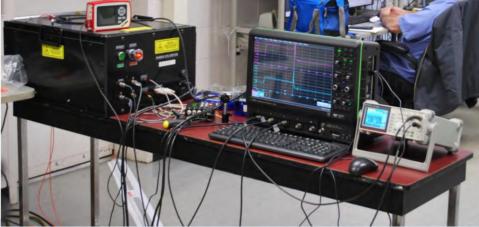
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- : i``mX]ghf]Vi hYX sensing Ë) |cm resolution
- Temperature measurementg^{*}UVcjY%%\$\$7
- Ai`hjd`Y probes deployed (gUdd\]fY`UbX`M5; Ł
- **HfUbg]Yb** ts observed easily









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