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[Invited] Some Lessons Learned During 27 Years Operating Above 27 Tesla.

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The National High Magnetic Field Laboratory headquartered at Florida State University in Tallahassee, Florida, USA designs, builds, and operates a variety of ultra-high field magnets including superconducting magnets providing up to 32 T, dc resistive magnets providing up to 41.5 T, resistive/superconducting hybrid magnets up to 45.1 T, and pulsed magnets up to 100 T. Some of the "lessons learned" in the development of a variety of ultra-high field magnets since 1994 will be presented.

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