

WHY A COMPACT STELLARATOR?

PAC CONTRIBUTIONS

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WHY A COMPACT STELLARATOR?

- **Stable to:**
 - **Ballooning**
 - **Kink**
 - **Neoclassical tearing**
 - **Vertical displacement**
- ⇒ **Resolves a set of very serious issues for toroidal confinement.**

- **Low recirculating power \Rightarrow COE same as ARIES-RS, even at $R = 14\text{m}$ (SPPS).**
- \Rightarrow Compact Stellarator with higher MPD makes a very attractive power plant.**

PAC CONTRIBUTION

- **PAC has been extremely valuable**
- **Drove the Project to**
 - **focus on highest priority goals**
 - **make key design decisions**
- **Next questions – Are appropriate...**
 - **machine characteristics being designed so as to economically address the highest-priority physics issues?**
 - **physics and engineering analyses being performed to evaluate machine capabilities?**