

Results from divertor experiments at W7-X

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- **Wendelstein 7-X** demonstrated that **island divertor** is an attractive exhaust concept.
- In attached state
 - We can efficiently spread heat with **wetted area of up to 1.5 m²** Moreover it **increases with P_{SOL}** .
 - **Overloading divertor** leading edge showed that **plasma core is robust against impurity accumulation**.
- **En-route to detachment** we observed **higher recycling regime**. This has been enabled by **good separation of counter-streaming flows** in the island divertor.
- **Stable (≤ 26 s), complete detachment** in many scenarios was achieved

