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The newly installed plasma source on the Kyushu University PANTA device is shown in the figure. A key feature of this source is its ability to control the plasma diameter through an aperture. By utilizing the aperture, the plasma diameter can be precisely adjusted, allowing for an expansion of up to two times that of the conventional source. This technology facilitates detailed research into heat and particle transport involving nonlinear turbulent fluctuations, and it is expected to advance the understanding of plasma turbulent transport and the development of new control methods.

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