

Professor Emeritus Jan Scheffel joins Novatron Fusion Group

Novatron Fusion Group AB
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Novatron Fusion Group AB welcomes Jan Scheffel, professor emeritus in Theoretical Fusion Plasma Physics at KTH Royal Institute of Technology in Stockholm, who will join Novatron as a part-time theoretical plasma physicist.

The NOVATRON concept is an innovative solution for fusion plasma containment invented by the Swedish inventor and entrepreneur Jan Jäderberg. Novatron Fusion Group's mission is to verify this new reactor design for continuous steady-state fusion and ultimately generate power to the grid.

"In December last year, we presented our unique partnership with KTH Royal Institute of Technology and EIT InnoEnergy. With his extensive background in fusion plasma physics, Jan Scheffel is an important addition to the NOVATRON project," says Peter Roos, CEO of Novatron Fusion Group.

After several years of extensive computer simulations and research, the new NOVATRON design and its hydromagnetic stabilization principles will be further tested, validated and commissioned in partnership with KTH Royal Institute of Technology in Stockholm.

"Based on recent innovations in fusion plasma confinement, worldwide initiatives are now taken to speed up the development of fusion energy. As a result, evaluating new promising fusion concepts like the NOVATRON, has become something of a specialty of mine over the years," says Jan Scheffel.

Jan Scheffel's professional focus is on fusion plasma physics and computational physics. Scientific achievements include decisive equilibrium, stability and confinement studies of several pinch-type plasma confinement schemes, including the reversed-field pinch. Furthermore, he develops novel time-spectral methods for computational simulation of fusion plasma.

"I will focus on critically assessing the NOVATRON design based on plasma physics theory, particularly classical mirror machine theory. Analytical modeling and novel time-spectral computational methods will be coupled to particles and plasma simulations. These computational results will then be compared to physical experiments performed in the NOVATRON geometry. This is such an interesting idea that I just had to join," Jan Scheffel concludes.

Jan has previously served as a Swedish Public Information officer at EUROfusion (www.euro-fusion.org). At KTH, he has held positions like Programme Director of

two master programs and a doctoral program. He has also been Chair of the KTH Promotion Committee and Deputy Head of the Division of Fusion Plasma Physics.

For more information about Jan Scheffel, please visit www.kth.se/profile/jans.

For more information, please contact:

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About Novatron Fusion Group AB

Novatron Fusion Group AB is a Swedish company headquartered in Stockholm. Established in 2019, we are developing a new fusion power reactor design together with world-leading physicists, engineers, and academia.

Partnerships include KTH Royal Institute of Technology (www.kth.se) and EIT InnoEnergy (www.innoenergy.com).