

Abstract Submitted
for the DPP97 Meeting of
The American Physical Society

Sorting Category: 5.1.1.2 (experimental)

DIII-D National Program Progress and Plans¹ T.C. SIMONEN AND THE DIII-D NATIONAL TEAM, General Atomics — The DIII-D Advanced Tokamak (AT) program uses and advances fusion energy science to provide the basis for future fusion initiatives. DIII-D experiments have employed particle and current profile control to optimize performance of short pulse DIII-D plasmas. The new capabilities of high triangularity divertor pumping and neutral particle baffling together with 110 GHz ECH power provide means to further optimize and extend these plasmas toward steady-state. DIII-D experiments are critically testing theory-based modelings, increasing plasma stability and its theoretical underpinning, developing divertor understanding through new experiments and measurements benchmarking modeling codes, and developing methods for tailoring the tokamak plasma current profile. Progress on these science fronts, which guides the future integrated DIII-D research plan, will be described.

¹Work supported by U.S. Department of Energy under Contracts DE-AC03-89ER51114, W-7405-ENG-48, DE-AC05-90OR22464, and DE-AC0276CH03073.

- Prefer Oral Session
 Prefer Poster Session

T.C. Simonen
simonen@gav.gat.com
General Atomics

Date submitted: July 7, 1997

Electronic form version 1.2