

SUBJECT INDEX

Transactions of **Fusion science** and technology



Volume 43, Number 1T
January 2003

CITATIONS ARE BY PAGE NUMBER

A

- AIC instability, 274
Alfvén
 ion cyclotron (AIC) waves, 213
 waves, 213
Axisymmetry, 195

B

- Beam
 plasma heating, 30
 plasma interaction, 172
 probe, 274, 283
Bounce motion, 105

C

- Chaos, 180
Closed field lines, 147
CUSP, 309
 magnetic field, 312

D

- D-³He fusion, 309, 312
Diagnostic
 beam, 265
 neutral beam, 286
Diamagnetic
 flux, 256
 loop, 256

D

- Direct energy converter, 299, 309, 312
Drift-wave instabilities, 216

E

- EC discharge cleaning, 162
ECRH, 98
Edge plasma, 177
Electric propulsion, 3, 111, 118
Electron cyclotron
 damping, 95, 208
 heating, 73
End loss
 analyzer, 268
 ion current, 268, 289

F

- Fast injection probe, 248
Field reversed configuration (FRC),
 295, 299, 304
Fixed array probes, 248

G

- Gamma-10, 10, 37, 86, 98, 135, 167,
 177, 189, 213
Gas puffing, 58

H

- Hanbit mirror device, 180
Helicon, 111, 125

- HHRW (high harmonic fast wave), 69,
 86

- High temperature superconductor, 203
Hot electrons, 73

I

- ICRF, 69, 101, 111, 118, 125

- antenna, 83
 heating, 105
 modeling, 65

- Impurity transport, 231

- Internal coil device, 203

Ion

- current detector, 262
 energy spectrometer, 262, 289
 heating, 268

L

- L and R waves, 95, 208

- Linked mirror, 147, 225

M

- Macroscopic instability, 130

- Magnetic
 divertor, 44
 mirror, 3, 16, 23, 51, 78, 92, 259
 nozzle, 118
 probe, 274
 well, 219

- Materials testing, 315

- MHD stability, 152, 225

Microwave diagnostics, 243
Millimeter-wave imaging, 237
Mirror
 discharge, 105, 183
 field, 318
 trap, 58, 65
MSE diagnostics, 265
Multi mirror, 172
Multimirror trap, 30, 253

N

Negative ions, 216
Neutral beams, 51, 78, 89, 259
 fueling, 135
 injection, 295
Neutron
 damage, 271
 source, 152, 315
Neutrons, 259

P

Particle
 diffusion, 216
 transport, 183
Plasma
 confinement, 16, 30, 51, 78, 147,
 157
 density profile, 283

diagnostics, 231, 237, 253
flow velocity, 277
flow velocity shear, 186, 208
heating, 16, 89
potential, 277
rotation, 189
source, 58
spectroscopy, 189, 286
stability, 23
transport, 157
Plug potential, 167
Polarization reversal, 95
Potential confinement, 10, 37
Potential formation, 37
Potential profile diagnostics, 289

R

Radial
 drift, 142
 potential, 142
 transport, 183
Reflectometry, 243
RF
 heating, 23, 44, 65, 92, 125, 157,
 295
 plasma source, 318
 test, 83
 transmission, 101

S

Secondary electron emission, 262
Semiconductor
 detector, 271
 X-ray detector, 280
Space transportation, 3
Spectroscopy, 253
Supersonic plasma flow, 130

T

Tandem mirror, 10, 44, 69, 73, 86, 98,
 135, 142, 167, 177, 195,
 219, 222
Thermal-barrier potential, 222
Traveling wave, 299
Two-component plasma, 152

V

VUV imaging spectroscopy, 231

W

Wall
 conditioning, 162
 recycling, 162

X

X-ray detector, 271