International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Princeton University, 17-22 June 2018



Suppression of wall erosion by vapor shielding at low-Z and high-Z walls ¹ Graduate school of Engineering, Osaka University, Suita 565-0871 Japan

Introduction

by the vapor shielding.

for the heat flux dissipation. In this study, suppression of erosion amounts for W and Be walls were examined.



Schematics of plasma-surface interactions during transient heat loads



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Hydrogen

Electron

ELM electron

x(m)

0.02 0.04 0.06

0.0

Impurity

ELM ion

0.08

Hydrogen

Electron

ELM electron

0.06

x(m)

Impurity _

ELM ion

0.02

