



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

Master Project, 2016, Mathematics Section

# Blood Flow Simulations in a Bifurcating Artery using the Dissipative Particle Method

by

AMOUDRUZ Lucas

Supervisors:

Dr. ROSSINELLI Diego

Dr. LITVINOV Sergey

CSE-lab, ETHZ

Mentor:

Dr. DEPARIS Simone

CMCS, EPFL

January 2016