UvA-DARE (Digital Academic Repository)

Fine aspects of pluripotential theory

El Marzguioui, S.

Link to publication

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
Index

A', 28
A, 28
arcwise connected, 34
approximately continuous function, 33

$B^c_r$, 28
$B^c_{B(a,r)}$, 29
$B^c_{D}$, 51
$b(A)$, 28
Baire, 29, 33, 49, 92
balayage, 13
Bedford, 49
Beurling, 54
Borel’s Monogenic Functions, 45
Borel series, 92
Brelot property, 40
Brelot, 13
Bremermann’s theorem, 15

$\mathcal{C}A$, 28
Carleman-Milloux, 54
Cartan, 13, 50
completely regular, 30, 49
convex function, 15
complete pluripolar set, 17, 82, 88

$\partial_f A$, 28
d$(z, A)$, 54
density topology, 33
Dirichlet problem, 25

$E^n_A$, 18
$E^{2,n}_{\mathbb{Z}}$, 76, 88
Edigarian, 19, 75, 96
Edlund, 70, 72, 97
$\varepsilon_{z}^x$, 36
$F$-PSH($U$), 62
finely analytic curve, 76, 80
Fine Analytic Structure, 79, 85
$F$-holomorphic functions, 71
finely harmonic function, 38, 42
finely holomorphic function, 41
finely hypoharmonic, 37
fine topology, 27, 28
Finely Plurisubharmonic Functions,

f-lim sup, 39
$F$-pluripolar set, 62, 66
Fine Pluripotential Theory, 21
finely subharmonic function, 35, 37,

FSH($U$), 37
Fuglede, 21, 57, 81
Gauthier, 21
gluing lemma, 59
Green set, 25

H($K$), 71
Harmonic measure, 54
harmonic function, 25
Hessian matrix, 14

$\mathcal{O}z$, 54
$i(A)$, 28
irregular boundary point, 26
Jörnicke, 70, 80
Levenberg, 18, 19, 70, 80
local connectedness, 21, 34, 51
maximum principle, 12

108
mean-value inequality, 11, 12
Nevanlinna, 54
Notations, 50
Open Problems, 88, 96
Overview of the thesis, 20
path connected, 89
pluripolar hull, 18, 20, 22, 69, 70, 74
pluripolar sets, 15
pluri-thin set, 17, 50
pluri-fine topology, 20, 49
Plurisubharmonic function, 13
Poletsky, 18, 19, 70
Poincaré, 13, 46
Poincaré-Voltera, 96
polar set, 12
pseudoconvex, 88
PSH(Ω), 14
quasi-Lindelöf property, 33, 49, 51
\(\mathcal{R}_z\), 54
regular boundary point, 26
regular set, 25
\(\mathcal{R}_u^E, \mathcal{R}_u\), 35, 36
Shcherbina, 72, 96
SH(Ω), 35
subharmonic function, 11, 55
swept-out Measure, 35
sweeping out, 13
Taylor, 49
thin set, 26, 32
upper semi-continuous, 13
uniqueness theorem, 45
Wermer, 80, 81
Wiegerinck, 19, 75, 81, 88, 96
Wiener's criterion, 32
Zeriahi, 18, 70