A few things about Sorgenfrey   Created by Jean Goubault-Larrecq

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ACROSS

1. Tribe
5. 56-down opponent (Sec. 7.6.1)
10. Jedi opponent
14. Employ
15. More confident
16. Former Italian P.M. Aldo
17. Bullets
18. Audience
19. Truant
20. Nigerian native
21. Bucks' wives
22. Consider equal
24. What the Sorgenfrey line is, but the Sorgenfrey plane is not (Ex. 6.3.33)
26. Homey
27. Yellowfin tuna
28. Volcano
29. Crowd
32. Helen's home
35. Wild plums
36. Government agency
37. What the Sorgenfrey line is (Ex. 4.1.34)
41. Mimick
42. The ___ of a compact subset by a continuous map is compact (Prop. 4.4.13)
43. ___back, also written ker(g1,g2) (p.115)
44. CD follower
45. Lively
46. Veneration
48. Tartan wearer
49. ___ Fixed Point Theorem (Thm. 3.4.5)
53. 53-___
56. Hisses
58. "Hear the sledges with the bells" author
59. Block
60. Water retention
62. Patron saint of goldsmiths
63. Junction point
64. Grader
65. Capital of Switzerland
66. Smell
67. Group of trees
68. Contains arbitrarily small open neighborhoods of every point (Lem. 4.1.10)

DOWN

1. Totally ordered non-empty (Sec. 2.3.3)
2. Oblivion
3. Knight's wear
4. Keanu's role in "The Matrix"
5. Arzela-___ Theorem (Thm. 6.6.11)
6. Tempt
7. Experts
8. Chop
9. Battle of the Bulge locale
10. "The Hobbit" dragon
11. Hawkeye State
12. Horse's gait
13. Open ___ topology: quasi-metric equivalent of upper topology (Ex. 6.2.12)
21. Dit's partner
23. The Sorgenfrey line is ___-metric, but not second-countable (Ex. 6.3.10)
25. Deli spread
26. A.H. ___'s Theorem: every metric space is paracompact (Thm. 6.3.31)
28. Lament
29. Handout to the hungry
30. Australia's national gemstone
31. Open ___ topology: quasi-metric equivalent of Alexandroff topology (Ex. 6.1.15)
32. Russian ruler
33. Seized vehicle
34. City near Provo
35. Dapper
38. CDs
39. They take advantage
40. [a, b) is, in the Sorgenfrey line (Ex. 4.1.34)
46. On the ship
47. Used to be
48. Where self-convergent nets have unique largest limits (Thm. 8.2.29)
50. Cop ___ (negotiate for a lighter sentence)
51. Beer brand
52. ___-Borel property, defines compactness (Def. 4.4.1)
53. "This comes ___ surprise"
54. Klutz
55. ___ structure: close cousin to J (Ex. 9.7.25)
56. 5-across opponent (Sec. 7.6.1)
57. Sign
61. Digital audio tape
62. Recede