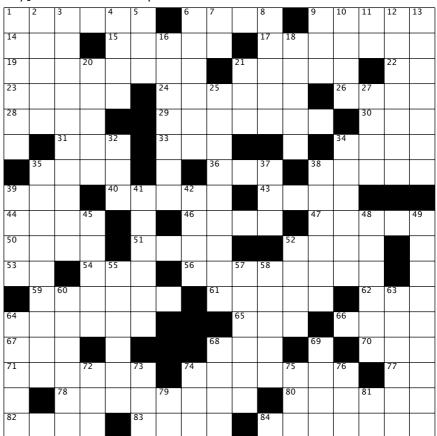
A third topology crossword puzzle Created by Jean Goubault-Larrecq

ACROSS

- 1. Clean again
- 6. Ten to the fifteen
- Mother of the Believers, to Muslims
- 14. From Charlotte to Raleigh, e.g.
- 15. November birthstone
- 17. Maps morphisms to morphisms (Sec. 4.12.1)
- 19. Sup of distances between pairs of points (Ex. 7.3.6)
- 21. Pooh's creator
- 22. Lauderdale, e.g.: abbr.
- 23. Consume
- 24. Sorgenfrey, author of famous counterexample (Ex. 4.1.34 and others)
- 26. Half-size
- 28. Bounce
- 29. Ornate
- 30. Vegas, e.g.
- 31. First woman
- 33. One in Amsterdam
- 34. In South East England, or in North East Ohio
- 35. A.k.a. term (Sec. 9.7)
- 36. Least upper bound (Sec. 2.3.2)
- 38. Sorgenfrey's is not normal (Ex. 6.3.33)
- 39. Builds devices from parts bought from others
- 40. Mucho
- 43. Woodwind instrument
- 44. Dull
- 46. ___ one, purl one
- 47. Useful result
- 50. -Louis Baire
- 51. Bud holder
- 52. Bordeaux or Burgundy, e.g.
- 53. ___ if!
- 54. Pair of mutually inverse morphisms (Sec. 4.12)
- 56. Word, up to permutation (Ex. 9.7.35)
- 59. Part of ball (Def. 6.1.3.)
- 61. Our planet
- 62. Unprocessed
- 64. Families whose union contain the whole set (Def. 4.4.1)
- 65. Sharpness
- 66. Amp plug-ins
- 67. Monkey
- 68. Whose opposite is lsc (Ex. 4.3.11)
- 70. Reduction
- 71. Paying guest
- 74. Bing Crosby hometown
- 77. Northeastern state, in brief
- 78. Papal sending
- 80. Bud holder
- 82. Sunlight
- 83. Consume
- 84. Banner

DOWN

- 1. Cash in
- 2. Early computer



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- "You don't need a ___ to know which way the wind blows", Bob Dylan quote
- 4. Basis of a function space (Lem. 5.7.10)
- 5. Sizzling
- 6. Temporary release
- 7. Ad catchphrase
- 8. Passionate
- 9. ___ Arbor, MI
- 10. On the rocks
- 11. 14 pounds, for short
- 12. Author of theorems with Mislove (Thm 8.3.2) and Lawson (Thm 8.3.21)
- 13. Professional entertainer
- Patch-continuous and monotonic, under stable compactness (Prop. 9.4.5)
- 18. Prefix with net (Def. 4.7.32) or metric (Ex. 6.1.20), e.g.
- 20. "Eppur si ____", Galileo utterance
- 21. Cat call
- 25. One inventor of various notions called after Yoneda (e.g., Sec. 7.4.3)
- 27. Home of Zeno
- 32. Slippery fish
- 34. Author of a fixed point theorem (Prop. 4.3.6)
- 35. Needed to define the prefix topology (Ex. 9.7.36)
- 37. Winner's take

- 38. Countably-based and completely metrizable (Sec. 7.7)
- 39. Spanish work or Polish river
- 41. Vigilant
- 42. Ricochet
- 45. ___'s Theorem: when continuity implies uniform continuity (Lem. 6.2.7)
- 48. With a distance (Sec. 3.1)
- 49. Opportunity to do better this time
- 52. Coauthor of a fixed point theorem (Thm. 2.3.1)
- 55. Like a Choquet game? (Sec. 7.6.1)
- 57. Escardo-___-Simpson Lemma: Map-C is Cartesian-closed (Thm. 5.6.4)
- 58. Result of practical use (e.g., 4.1.11 or 4.4.6)
- 60. ___-continuous: required in Arzela-Ascoli-Kelley theorems (5.4.38, 5.4.40)
- 63. Sharpness
- 64. Prefix with pillar
- 68. Fairy tale's second word
- 69. Shortly
- 72. Rijndael
- 73. Bill
- 74. Lady's man
- 75. Whiz
- 76. Long time
- 79. You, in Paris
- 81. Second biggest to NYC in the US