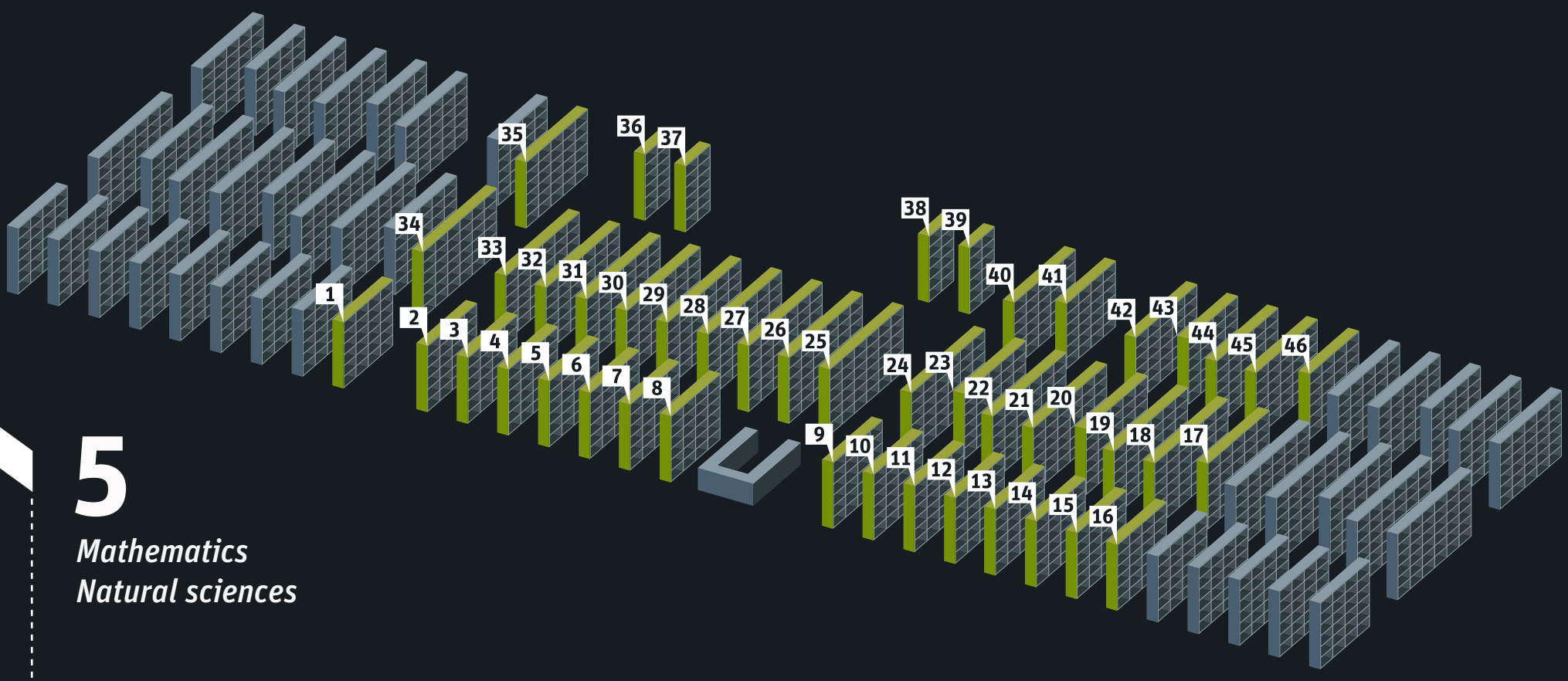


# 5

*Mathematics*
*Natural sciences*

1 5
*Mathematics and natural sciences.*

1–3 50
*Environmental science.*

1 502
*Environmental science. Environment protection.*

1–2 502.1
*Environment and society. Eco development. Sustainable development.*

3 502.5
*Nature reserves. Scenic parks. Landscape protection.*

3 504
*Threats to the environment.*

3–5 51
*Mathematics.*

5 51(09)
*Mathematics – history.*

5 51–7
*Research and mathematical methods in other fields of science.*

5–6 51–7:336
*Financial mathematics.*

6 510.22
*Set theory.*

6 510.6
*Mathematical logic.*

7 511
*Number theory.*

7–8 512
*Algebra.*

8–9 512.6/.8
*Special divisions of algebra. Polynomials. Algebraic equations. Algebraic geometry. Lie groups.*

9–10 514
*Geometry.*

10–11 515.1
*Topology.*

11–12 517
*Mathematical analysis.*

13 517.2/.4
*Differential calculus. Integral calculus.*

13–14 517.5
*Real-valued functions. Functions of a complex variable.*

14–15 517.9
*Differential, integral, functional, difference equations.*

16 517.98
*Functional analysis. Theory of operators.*

16 519.1
*Combinatorial analysis. Graph theory.*

17–18 519.2
*Calculus of probability. Mathematical statistics. Statistical analysis.*

18 519.6
*Computational mathematics. Numerical analysis.*

19 519.7
*Mathematical cybernetics. Theory of information (mathematical aspect).*

19 519.8
*Operational research. Game theory. Mathematical programming. Mathematical models.*

20 52
*Astronomy. Geodesy. Surveying. Cartography.*

20 520/524
*Astronomy. Astrophysics.*

20 528
*Geodesy. Surveying. Photogrammetry. Cartography.*

20 53
*Physics.*

21 530.1
*Basic principles of physics. Theory of relativity.*

22 530.145
*Quantum theory. Quantum physics. Quantum mechanics.*

22 531/534
*Mechanics.*

23 535
*Light. Optics.*

23 536*Heat. Thermodynamics.*

23 537
*Electricity. Magnetism. Electromagnetism.*

24 538.9
*Condensed matter physics (liquid state and solid state).*

24 539
*Physical nature of matter. Nuclear, atomic and molecular physics.*

25 54
*Chemistry.*

25–26 543
*Analytical chemistry.*

26–27 543.2/.5
*Methods of analysis: chemical, spectral, optical and physico-chemical. Spectroscopy. Chromatography.*

27–28 544
*Physical and theoretical chemistry.*

28–29 546
*Inorganic chemistry.*

29–30 547
*Organic chemistry.*

30–31 548/549
*Crystallography. Mineralogy.*

31 55
*Geology and related sciences. Meteorology. Hydrology.*

31 550
*Ancillary sciences of geology. Geophysics. Geochemistry. Geobiology.*

31 551
*General geology: physical geology and geodynamics. Meteorology. Historical geology. Stratigraphy. Paleogeography.*

31 552/553
*Petrography. Rocks. Economic geology. Science of mineral deposits.*

31 556
*Hydrology. Hydrosphere.*

32 56
*Palaeontology. Fossilology.*

32 57
*Biological sciences.*

32 572
*Anthropology.*

32 573
*General and theoretical biology.*

32 574
*General ecology. Biocoenology. Hydrobiology. Biogeography.*

32–33 575
*General genetics. General cytogenetics. Immunogenetics. Evolution. Phylogeny.*

33 576
*Cellular biology. Cytology.*

34 577
*Material bases of life. Biochemistry. Molecular biology. Biophysics.*

35 578/579
*Virology. Microbiology.*

35–40 58
*Botany.*

35 581
*General botany. Biology of plants.*

36 581.1/.4
*Plant physiology. Plant diseases. Phytopatology. Embryology of plants. Ontogenesis. Plant morphology. Plant histology. Tissues.*

37–38 581.5
*Plant ecology. Ethology of plants.*

38–39 581.9
*Plant geography. Floras.*

40 582
*Systematic botany.*

40 582(083.44)
*Plant identification keys.*

40–43 59
*Zoology.*

40 591
*General zoology. Biology of animals.*

41 591.1
*Animal physiology.*

41 591.3
*Animal embryology. Ontogeny.*

41 591.4
*Animal anatomy. Organology. Zootomy.*

41 591.5
*Animal habits. Ecology of animals. Ethology of animals.*

41 591.8
*Animal histology.*

41 591.9
*Geographic zoology. Fauna.*

41 592/599
*Systematic zoology.*

42 593/595
*Invertebrates.*

42–43 595.7
*Insects. Entomology.*

43 595.7(083.44)
*Insects identification keys.*

43 596/599
*Vertebrates. Chordata.*

43 597/598.1
*Fishes. Amphibia. Reptiles.*

43 598.2
*Birds. Ornithology.*

43 599
*Mammals.*

44–46 5(05)
*Mathematics and natural sciences – – serial publications, periodicals.*

*notes:*