

Across

- 1 Put up a painting again
 10 S^1 in \mathbb{C}
 11 Eleventy
 13 Roku, Kyoshi, or Korra
 19 ___admin
 20 It springs eternal
 23 Blokes
 27 Like the streets at midnight
 28 Greek letter rarely used in math
 29 Formula relating five fundamental constants
 30 Skip to your ___
 31 Pacifist's goal
 33 Symbols for canonical sheaves
 37 Hourly birds
 40 Even function in a Fourier series
 42 Reduction of an expression to its least complicated form
 43 With probability somewhat greater than $1/2$
 44 Writing with a friend
 45 Limit of a diagram *sans* universal property
 46 Aid for the poor (singular)
 47 Object captured by Rosalind Franklin in Photo 51
 48 What a fish says after swimming into a wall
 49 Like open sets that generate a topology

- 51 Quarrel or angle
 54 ___filter
 55 Most frosted-over
 57 Product of copies of \mathbb{G}_m
 58 Games that went on hiatus for about 1500 years
 59 Transmitted
 60 Many a Scott Joplin tune
 61 Grinds the teeth
 62 Gruesome and shocking
 63 Faraway
 64 Thanksgiving tuber
 65 "Strong" conditional?
 66 Four, to a watchmaker

Down

- 1 Sounds of engines or lions
 2 Emissary
 3 Boils, microwaves, or toasts, e.g.
 4 " ___ boy!"
 5 "Cool!"
 6 19th letter of the alphabet, spelled phonetically

1	R	E	H	A	N	G		6	E	L	C	8	R	9	C	T	N	10	U			
11	O	N	E	T	E	N		12	S	E	M	C	O	L	O	N						
13	A	V	A	T	A	R		14	S	E	15	M	A	M	P	L	E					
16	R	O	T	A	T	O	17									18	M	S	A			
19	S	Y	S				20	H	O	21	P	22	E		23	C	24	H	A	P	S	
				Y	25	T	T	N	E	D	26	S	R	E	27	L	28	U	29	E		
					30	L	O	U			31	N	O	W	A	R						
				32	S	E	P	A					33	O	M	E	34	G	35	A	36	S
37	38	U	C	K	O	O	39	S		40	C	O	S			41	E	N	E			
42	S	M	P	43	L	F	44	C	A	T	O	N			45	C	O	N	E			
46	A	L	M					47	D	N	A			48	D	A	M					
49	B	A	Y	S	D	50	E			51	A	R	52	G	U	M	E	53	N	T		
		54	U	L	T	R	A				T	S	E	55	C			56	T	C	H	
		57	T	58	O	R	U	S			59	S	E	N	T			60	R	A	G	
				61	G	62	L	T			63	D	R	T				64	Y	A	65	M

- 7 Harper or Robert E.
 8 Connector cable involving red, white, and yellow plugs that has been replaced in recent years by HDMI
 9 What may follow a dot
 10 Sense that not all is well
 12 Eyes of a winking emoji
 14 \mathcal{L} such that $\mathcal{L}^{\otimes n}$ is basepoint-free for some $n > 0$
 15 Imitator, such as a suspicious-looking chest in Dungeons and Dragons
 16 Action of $SO(2)$
 17 Prefix for "singular" or "trivial"
 18 *Death Note* character Amane (the "Second Kira")
 21 Write
 22 Tokyo, once
 23 Studies for a final exam in one day
 24 At the present spatial location
 25 ___-the-line
 26 Reel in infatuation
 32 Color of 19th Century photos
 34 "There is ___ in the humming of the strings, there is music in the spacing of the spheres."
 —Pythagoras
 35 Raggedy ___ doll
 36 Verb coming before "stars" or "red"
 38 "
 39 Blue
 40 Like the weak topology *vis-à-vis* the standard topology
 41 ___ *kleine Nachtmusik*
 45 River flowing through Newton's university
 48 Shortcut in many a spy movie
 49 By the sea, especially near Berkeley
 50 Cardinal direction towards Mordor
 52 Fella
 53 March Madness org.
 56 Scratch motivator
 61 Gold-coated
 63 Incriminating information
 67 *Hamlet* act with "To be or not to be"

Solutions, archive and hints:

<https://math.berkeley.edu/~cjdowd/crosswords.html>