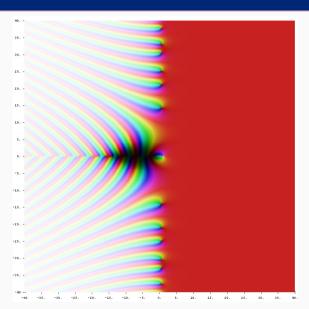




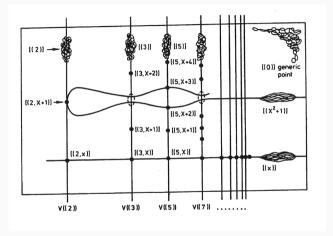
Leonie Kayser

leokayser.github.io

May 14, 2024



- Many things are a spectrum



- Chains of adjectives
- ▷ Argue about definitions

1. Idea

The notion of commutative monoid (or commutative monoid object, commutative algebra, commutative algebra object) in a symmetric monoidal (infinity.1)-category is the (infinity.1)-categorical generalization of the notion of commutative monoid in a symmetric monoidal category. It is the commutative version of monoid in a monoidal (infinity.1)-category.

Note that commutative here really means E_{∞} , in the sense of E-infinity operad.

- Love rainbows
- ▷ Many things are a spectrum
- Chains of adjectives
- Argue about definitions
- ▷ Shady sites to access vital resources



- ▷ Many things are a spectrum
- Chains of adjectives
- Argue about definitions
- ▷ Shady sites to access vital resources

- ▷ Correlate with autism

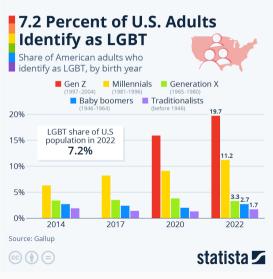


- ▷ Many things are a spectrum
- Chains of adjectives
- ▷ Argue about definitions
- ▷ Shady sites to access vital resources
- Have friends all over the world
- ▷ Correlate with autism
- ▷ Impostor syndrome
- Always in need for funding

QUIZ: Are You Even Good Enough to Have Imposter Syndrome?

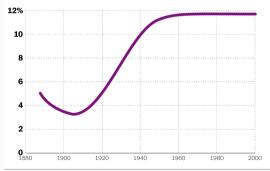


Gays everywhere???



The history of left-handedness

Rate of left-handedness among Americans, by year of birth



WAPO.ST/WONKBLOG

ource: Survey data reported in "The History and Geography of Human Handedness" (2009)

A fuzzy coordinate system

- ▶ Main "axes" of queer identities
 - 1. Sex (biological)
 - 2. Gender identity (social, cultural)
 - 3. Sexual and romantic attraction (or lack thereof)
- □ queer is a reclaimed umbrella term for "non-normative sexual or gender identities"

 $\operatorname{FLINTA} = \operatorname{females}$, lesbians, intersex, non-binary, transgender, agender

Sex (\neq gender)

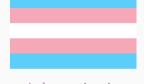
- ▷ Sex is initially assigned at birth (AFAB/AMAB) aligning with external genitalia
- ▷ Several characteristics: chromosomes, gonads, hormones, genitals
- ▷ Even sex is a spectrum https://www.nature.com/articles/518288a
- Intersex: sex characteristics including chromosome patterns, gonads, hormones, or genitals that do not fit typical binary notions of male or female bodies



- ▷ Gender is a cultural and social concept, manifesting in identity and expression
- ▷ Not necessarily aligning with one's sex/AGAB

Gender (\neq sex)

- ▷ cisgender: gender identity corresponds to AGAB



▷ non-binary (= enby): gender does not align with categories "woman" and "man"





https://twitter.com/theFoxFisher/ status/1694646306826867091

Sexuality



→ mSpec (multi-attraction spectrum):

bisexual, pansexual, polysexual (attraction to own and other genders)



Sexuality 2

- ▷ Allosexual: ability to experience sexual attraction
- ▷ Asexual and aromantic: lack of sexual/romantic attraction or desire



- ▷ Aroace umbrella: Asexuality is a spectrum
- Demisexual: sexual attraction requires strong emotional connection with partner



ightharpoonup Yet another aspect: monogamy \leftrightarrow ethical non-monogamy (ENM), polyamory

Pronouns matter

- □ Queer labels are mostly relevant in the context of relationships/dating
- ▷ Pronouns are always relevant, especially in a professional context
 - she
 - he
 - they
 - Combinations such as they/he (usually not hierarchical)
 - Any pronouns
 - No pronouns: always use name
 - Neopronouns, e.g. ze/zir
- Disregard of pronouns can cause discomfort and gender dysphoria
- You can't always tell a person's name from their face − just ask!
- Normalise having pronouns on nametags and websites!

Pride ∩ mathematics

- ▷ 1992 Colorado revoked the protected status of queer people
- ▶ 1995 Joint Mathematical Meetings (JMM) by MAA & AMS was planned to take place in Denver
- David Pengelley and James Humphreys independently wrote letters to AMS & MAA officers urging them to move meeting out of Colorado
- Despite the financial and organisatorial cost cancelling and rebooking contracts, both AMS and MAA agreed on moving JMM though not without (internal) backlash

Blog post:

reddit.com/r/math/comments/13xj5cd/on_the_intersection_of_pride_and_math/

Opportunities and challenges

- > Queer individuals still face discrimination in their daily lives
- ▷ Networking and visibility helps creating a welcoming environment
- Description Queer inclusion equals better mathematics
 https://www.nature.com/articles/d41586-022-02354-y
- Awareness of intersectionality and multiple discrimination (racism, ableism, antisemitism, . . .)
- ▷ Acknowledging social privileges and calling out power structures aiding privileged people
- Sharing experiences helps empowering the community!

Queer associations in math and STEM



https://lgbtmath.org/



https://ostem.org/

The gay agenda

- ▶ 10:30 Leonie Kayser: Introductory Lecture
- ▶ 11:00 Theresa Simon: Nonlocal Isoperimetric Problems
- ▶ 12:00 Lunch
- ▷ 13:00 Yossi Bokor Bleile: Doughnuts and Data
- ▶ 14:00 Amazing folks: Lightning talks
- ▶ 15:15 Coffee break
- ▶ 16:00 Panel discussion Being Queer in Mathematics
- ▷ 18:00 Dinner at Substanz (cash payment only!)

Thank you! Questions?