

14:54:54 From Sebastian Ørsted : Is this being broadcast on YouTube as usual?

14:55:49 From Andre Reznikov : Apparently not, but we will fix it.

14:57:15 From Andre Reznikov : Now it is on

14:58:04 From Dmitry Gourevitch : Now it is live on youtube

15:01:40 From Dan Abramovich : Great!

15:03:19 From Ary Shaviv to Dmitry Gourevitch(Privately) : hi Dima, we still hear you :)

15:11:08 From Dan Abramovich :  $S = \text{Schemes over } S$

15:12:38 From Adam Gal : A discrete groupoid

15:12:39 From M C R Praphulla Kumar Koushik : for each scheme  $S$  one can associate a groupoid.. I think  $\text{Funct}(S,X)$  is the category of functors from  $S$  to  $X$ .

15:29:50 From Jayce Getz : What do PAC and QCA stand for?

15:30:05 From Shaul Zemel : PAC = Pseudo alg closed

15:30:22 From Alexander Yom Din : QCA = automorphism groups of points are linear groups

15:30:28 From Shaul Zemel : Means that every variety over it carries some rational points

15:30:30 From Dmitry Gourevitch : are  $p$ -adic numbers PAC?

15:31:57 From Jiuzu Hong : Does this theorem follow from Galois cohomology vanishing?

15:32:00 From Shaul Zemel : I don't think so. Some conics don't carry rational points

15:35:35 From Roman Travkin :  $X_0$  should be  $X^{^0}$

15:35:45 From Dan Abramovich : right

15:38:23 From Brad Brock : QCA means "Quasi-Compact and the automorphism group of every field-valued point is Affine"

15:39:38 From Brad Brock : p. 153 of Stacks and Categories in Geometry, Topology, and Algebra

By Tony Pantev, Carlos Simpson, Bertrand Toën, Michel Vaquié, Gabriele Vezzosi

15:39:50 From Uri Bader : I thought it is a Question one Could not Answer.

15:40:15 From Jayce Getz : Thanks!

15:40:17 From Shaul Zemel : As for  $Q_p$ , I now checked - it's not PAC. The Brauer group of a PAC field is trivial, for local fields other than  $C$  it is never so

15:51:57 From Dan Abramovich : there is work of Olsson, Hall-Rydh - what's the relation?

15:56:38 From Daria Shchedrina : where is \*?

15:57:12 From Daria Shchedrina : youtube time would help

15:57:26 From Dmitry Gourevitch : (\*) in the Proposition on slide 9

15:57:32 From Daria Shchedrina : ok, thanks!

16:03:38 From M C R Praphulla Kumar Koushik : What would be counter part of this question in the set up of differentiable stacks (stacks representable by Lie groupoids)?

16:04:38 From Yue Feng : Why this generalizes to  $\infty$ -stack naturally, does that QCA condition preserves affinization?

16:05:35 From M C R Praphulla Kumar Koushik : yes

16:05:50 From Brad Brock : Answering the verbal question What is a gerbe?

[https://en.wikipedia.org/wiki/Gerbe#Algebraic\\_geometry](https://en.wikipedia.org/wiki/Gerbe#Algebraic_geometry)

16:06:13 From M C R Praphulla Kumar Koushik : ok :)

16:07:27 From Dan Abramovich : whats a nash stack?

16:10:12 From M C R Praphulla Kumar Koushik : gerbe (over a stack) is a morphism of stacks satisfying certain conditions.

16:10:55 From M C R Praphulla Kumar Koushik : If it is ok to advertise, one place where you can see it is <https://arxiv.org/pdf/1907.00375.pdf> Definition 3.15

16:11:26 From Tamir Hemo : Rami, does the result also hold for infinity stacks?

16:12:24 From shachar carmeli : @tamir chemo to the very least you need it to be truncated, otherwise you can go wild with the higher homotopies...

16:12:32 From shachar carmeli : don't you?

16:13:00 From Jiuzu Hong : is metaplectic group nash group?

16:13:02 From shachar carmeli : \*Hemo

16:13:23 From Dmitry Gourevitch : Yes

16:13:28 From Tamir Hemo : Yeah let's say truncated. So you won't need some limit argument

16:14:00 From Tamir Hemo : (and it's possibly not true)

16:18:21 From Tamir Hemo : Sorry, a  $k$ -Artin stack would be truncated anyway

16:18:37 From Tamir Hemo : (not doing derived AG)

16:20:09 From shachar carmeli : @Tamir Since Rami don't seem to see the chat let me just say that when I asked him he said it should hold in the  $k$ -truncated case as well but I don't think its actually done.

16:21:24 From Tamir Hemo : @ Shachar thanks!