YOU CAN LEAD A USER TO CONTENT, BUT YOU CAN'T MAKE THEM CLICK.

K. Anthony (University of Udine) on behalf of ATLAS Outreach Team

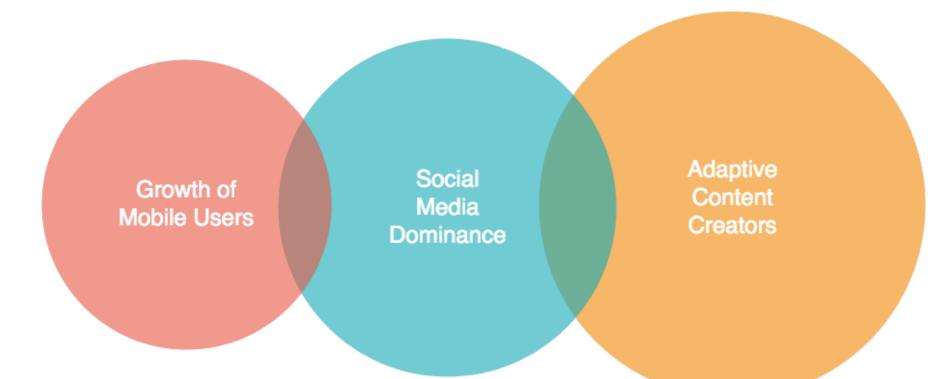
# THE "SOCIAL CONTENT" STRATEGY OF THE ATLAS EXPERIMENT



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### **SHIFTING PERSPECTIVES**

Traditional web-content strategies no longer effective as content tailored to social media has become common place.



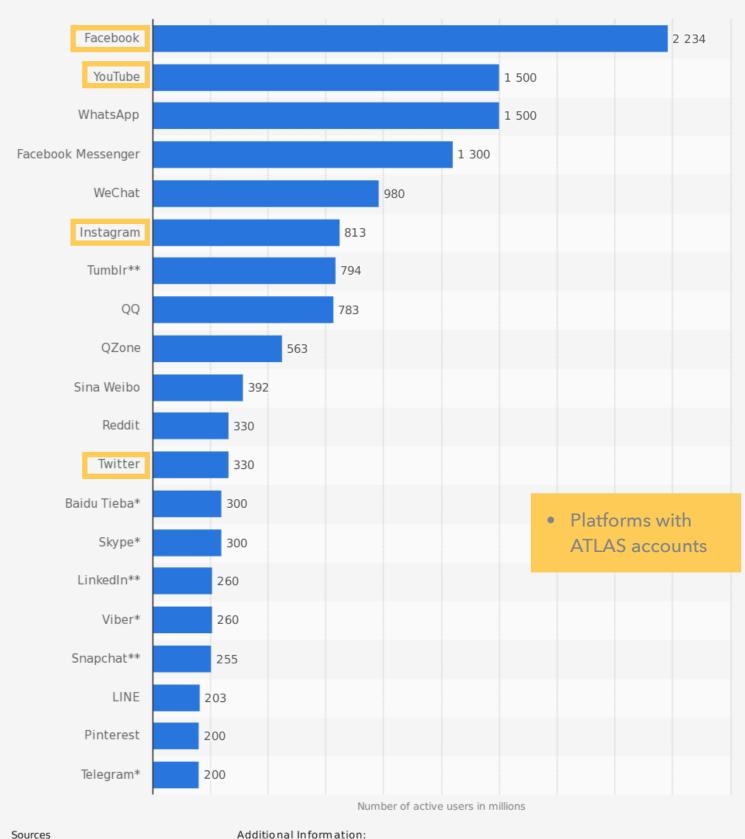
How can collaboration-led science communication adapt without losing the integrity of their messages?



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### THE NEW NORMAL: SOCIAL

- No longer any doubt about the longevity of social media:
  - Of the 4 billion people active global internet users, 3.3 billion use social media (April 2018, We Are Social/Statista)
  - 2.2 billion of these users are on Facebook
  - Instagram's size is worthy of note - as its user base is unique from traditional social media accounts, and has had a staggering growth rate.



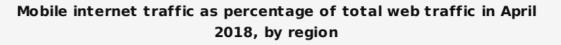
#### Most popular social networks worldwide as of April 2018, ranked by number of active users (in millions)

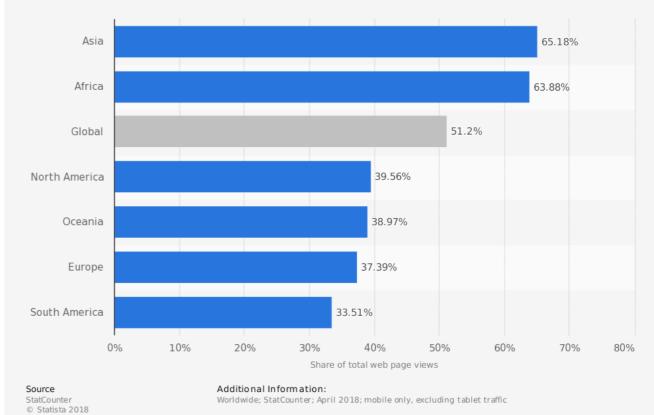
We Are Social; Kepios; SimilarWeb; TechCrunch; Apptopia; Fortune © Statista 2018

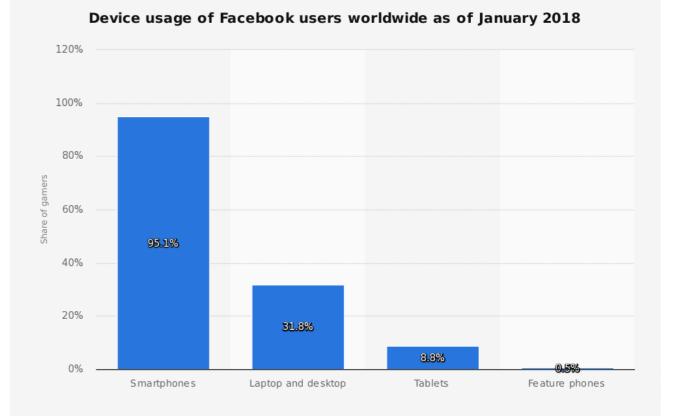
Worldwide; We Are Social; SimilarWeb; TechCrunch; Apptopia; Fortune; Fortune; as of April 12, 2018; social n app/voip included

### THE NEW NORMAL: MOBILE

- Mobile devices are now the main means of accessing the internet for global users
- The markets where mobile devices have the highest shares of internet use are geographically diverse. For example:
  - Spain is top, with an estimated 81% of internet use coming from mobile devices in 2017, followed by Italy (78%), China and the US (each at 77%) and India (73%). (Zenith's Mobile Advertising)
- Social media is app-based:
  - More than 95% of Facebook users use Facebook on their mobile
  - Instagram is developed for mobile, i.e. new IGTV only allows portrait mode







Additional Information:

Worldwide: We Are Social: January 2018

Sources

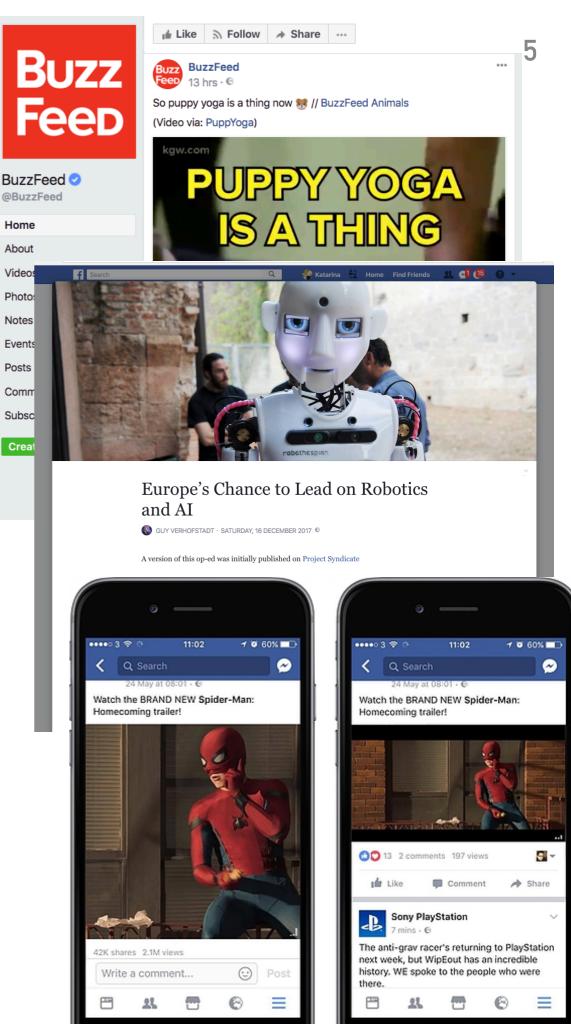
Facebook; We Are Social

© Statista 2018

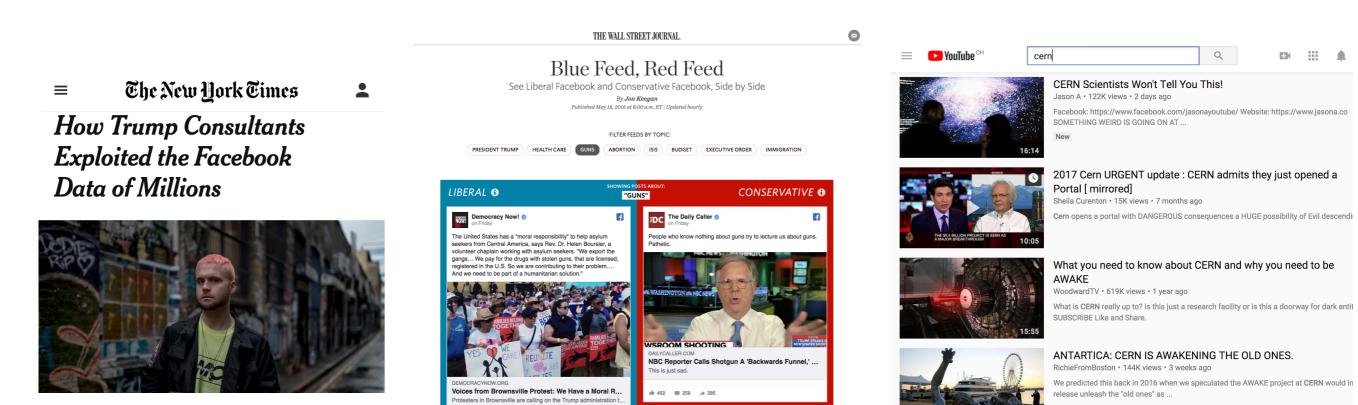
### THE SOCIAL CONTENT LANDSCAPE

- Tailored to low-attention spans:
  - Everyone is suffering from low click-through Users primarily read headlines and scroll past
  - Facebook advertises anything over 2% as "high", with typical rates between 0.5-1.6%
- Video content is king:
  - Facebook algorithm boosts videos over images
  - Forbes estimates that over 80% of user traffic will be video by 2019
- Content is being tailored to mobile users:
  - Video consumption on mobile has increased 233% since 2013, and more than half of video views take place on mobile
  - 1:1 ratio videos are now the standard, as they take up 78% more real estate in the News Feed on mobile than on desktop
  - Content producers are staying on the platform, lowering the threshold for engagement by removing the need to clickthrough

 Content is being made to share - in other words, it is evoking an emotional reaction.



### OTHER USES OF THIS TREND...



"Using actual fake news headlines presented as they were seen on Facebook, we show that even a single exposure increases subsequent perceptions of accuracy, both within the same session and after a week. Moreover, this "**illusory truth effect**" for fake news headlines occurs despite a low level of overall believability"

Mitchy 📀

Pennycook, Gordon and Cannon, Tyrone and Rand, David G. (Yale University) Prior Exposure Increases Perceived Accuracy of Fake News (May 3, 2018). Forthcoming in Journal of Experimental Psychology: General

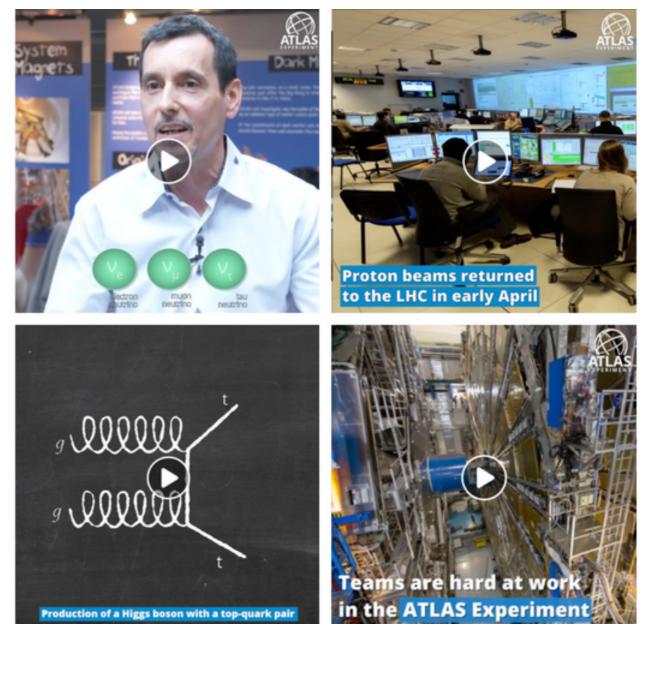


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### HOW HAVE WE ADAPTED?

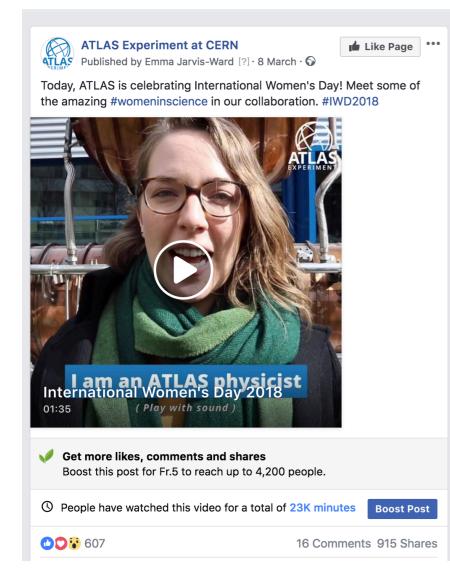
ATLAS has expanded its social-media only content

- New videos between 1-2 min with concise content & main messages delivered in 3 seconds.
- Videos feature captions to facilitate the viewing experience.
- Social media videos are 1:1 ratio also creating Instagram video content in portrait ratio.
- On Facebook, we are making complete content available directly on platform through Facebook Notes.
- Continue creating unique content for Instagram, but expanding to unique facebook & twitter content.



Social content: Keeps users on the platform, grabs their attention quickly and **caters to the algorithm**.

### **EXAMPLE CONTENT: OUR MOST SUCCESSFUL VIDEO OF THE 2010S**



#### Performance for your post

175,330 People Reached

49,775 Video Views

5,769 React	ions, comments &	shares 1
3,739	<b>498</b>	3,241
DLike	On post	On shares
<b>796</b>	<b>137</b>	659
O Love	On post	On shares
10	<b>0</b>	<b>10</b>
€ Haha	On post	On shares
27	3	<b>24</b>
😯 Wow	On post	On shares
1	<b>0</b>	<b>1</b>
😧 Sad	On post	On shares
4	1	<b>3</b>
😔 Angry	On post	On shares
<b>240</b>	18	222
Comments	On Post	On Shares
967	<b>915</b>	52
Shares	On Post	On Shares

- 1min video for International Women's Day 2018 was our most successful video since 2008 startup
- Over 65k views across
   Facebook, Twitter &
   Instagram

In 2018, video content is not destined to be shared across all social platforms in one format and length.



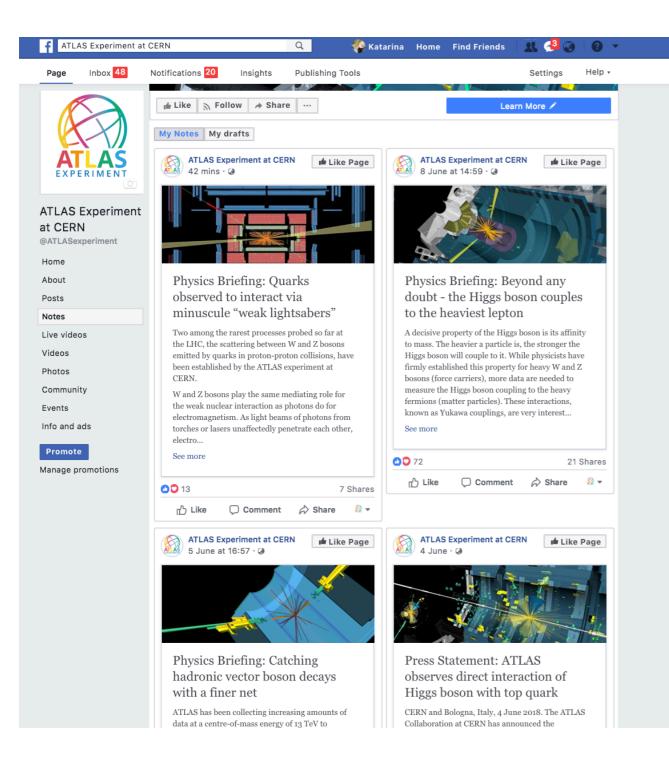
#### ATLAS SOCIAL VIDEO CONTENT

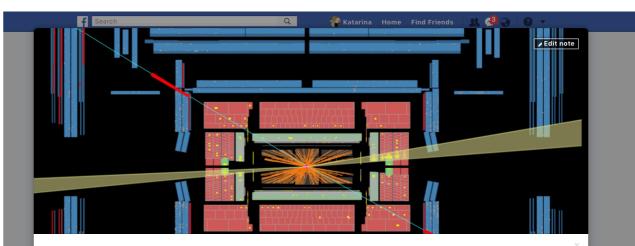
- Comparison between two similar ATLAS videos:
  - Almost x3 reactions (225 vs 669)
  - More than x2 shares (41 vs 110)
  - Despite shorter length, more minutes were watched (1.2k vs 1.7k) of social video

	The for your post	ATLAS Experiment at CERN	Performance f	or your post	
ATLAS Experiment at CERN Published by Clara Nellist [2] · 20 June 2017 ·	9,426 People Reiched	Published by Katarina Anthony [?] · 30 January · O	15,069 Peo, & Reached 4,877 Video Viens		
The Tile Calorimeter (TileCal) covers the most central region of ATLAS, and is designed to detect and measure hadrons. It is made of almost 200	2,744 Video Views	Engineers are working in the ATLAS cavern this month. Find out why in the video below!			
modules, each composed of iron plates and plastic scintillator tiles.	225 Reactions, comments & shares		669 Reactions, omments & shares 1		
In this video, ATLAS TileCal teams performed maintenance of the front- end electronics of 48 modules duringthe Extended Year-End-Technical- Stop (EYETS).	Like 101 54 On post On shares		473	272201On postOn shares	
Read more about the ATLAS activities during the winter technical stop: http://atlas.cern/updates/atlas-news/atlas-starting-line	16 On post On shares		52 O Love	40 12 On post On shares	
	2 Wow 2 0 On post 0 On shares		<b>2</b> ⊌ Haha	2 0 On post On shares	
TALESONTHE	11 Comments7 On Post4 On Shares		<b>15</b> 😯 Wow	6 9 On post On shares	
TILE CALORIMETER	41401SharesOn PostOn Shares	Teams are hard at work	1 😔 Angry	1 0 On post On shares	
Tales of the Tile Calorimeter	561 Post Clicks           118         11         432	iosthe ATLAS Experiment	<b>16</b> Comments	4 12 On Post On Shares	
02:53	Clicks to Play  Link clicks Other Clicks  NEGATIVE FEEDBACK 2 Hide Post 3 Hide All Posts	Get more likes, comments and shares Boost this post for Fr.5 to reach up to 4,300 people.	<b>110</b> Shares	1100On PostOn Shares	
Get more likes, comments and shares When you boost this post, you'll show it to more people.	0 Report as Spam 0 Unlike Page	Your video is popular with men aged 25-34 Boost Post	1,117 Post Clicks	3	
People have watched this video for a total of 1.2k     minutes     Boost Post	Reported stats may be delayed from what appears on posts	Comments 110 Shares	<b>312</b> Clicks to Play <i>i</i>	0 805 Link clicks Other Clicks i	
CONTRACTOR 6 Comments 40 Shares		🖒 Like 🗘 Comment 🏟 Share	NEGATIVE FEEDBACK 2 Hide Post	2 Hide All Posts	
🖒 Like 🖓 Comment 🔗 Share  🔬 🕶			0 Report as Spam	0 Unlike Page	
				TLAS	

EXPERIMENT

### **EXAMPLE CONTENT: FACEBOOK NOTES**





#### Physics Briefing: Quarks observed to interact via minuscule "weak lightsabers"

ATLAS EXPERIMENT AT CERN · THURSDAY, 5 JULY 2018 @ 24 reads

Two among the rarest processes probed so far at the LHC, the scattering between W and Z bosons emitted by quarks in proton-proton collisions, have been established by the ATLAS experiment at CERN.

W and Z bosons play the same mediating role for the weak nuclear interaction as photons do for electromagnetism. As light beams of photons from torches or lasers unaffectedly penetrate each other, electromagnetic "lightsabers" will forever stay science fiction. However, beams of W and Z bosons – or "weak light rays" – can scatter from one another.

One of the key motivations for building the Large Hadron Collider (LHC) at CERN was to study exactly this process, called weak "vector boson scattering" (VBS). One quark in each of two colliding protons has to radiate a W or a Z boson. These extremely short-lived particles are only able to fly a distance of 0.1x10-15m before transforming into other particles, and their interaction with other particles is limited to a range of 0.002x10-15m. In other words, these extremely short "weak lightsabers" extend only about 1/10th of a proton's radius and have to approach each other by 1/500th of a proton's radius! Such an extremely improbable coincidence happens only about once in 20,000 billion proton-proton interactions, recorded typically in one day of LHC operation.

Using 2016 data, ATLAS has now doubtlessly observed WZ and WW electroweak production, with the dominant part of it being the weak vector boson scattering:  $W \pm W \pm \rightarrow W \pm W \pm$  and  $W \pm Z \rightarrow W \pm Z$ . This continues the experiment's long journey to scrutinise the VBS process: using 8 TeV data from 2012, ATLAS had obtained the first evidence for the  $W \pm W \pm \rightarrow W \pm W \pm$  process with 18 candidate events. Such a yield would occur with a probability of less than 1:3000 as a pure statistical fluctuation. Now, at a higher centre-of-mass energy of 13 TeV, ATLAS has identified 60  $W \pm W \pm \rightarrow W \pm W \pm$  events, which only would happen less than once in 200 billion cases as a fluctuation from pure background processes. This corresponds to a



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## **REACH OF FACEBOOK NOTES**

- Comparison between two physics briefings published this year with ± the same level of reach:
  - "Link" physics briefing had 58 clicks to read the text on webpage vs "Note" physics briefing had 121 reads directly on Facebook (plus 11 webpage visits)
  - Format gives users the ability to comment something to take advantage of in future?

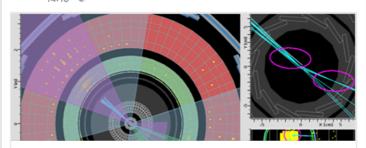
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[Physics Briefing] strength	Measurements of weak top	o quark processes gain	61 Reactio	ns, com
topic at the LHC. A	top quarks in association v ATLAS first reported strong	evidence for the	🕛 Like	
conference. In a pa the ATLAS experim	o quark in association with aper submitted to the Jour nent describes the measur ciation with a W boson in 1	nal of High-Energy Phy ement of top-quark		
	/measurements-weak-top		1 😯 Wow	
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1.5	Powheg+Pythia6 (DR)	Powheg+Pythia6 (DS)	143 Post	Clicks
Data 1			O Photo views	
0.5			4 Hide Post	
Measurement	ts of weak top quark p	rocesses gain	0 Report as	
The production of	top quarks in association wit ATLAS first reported strong e		Reported st	ats may
V Get more likes,	, comments and shares it this post, you'll show it to n	nore people.		
A 3,319 people re		Boost P	Post	

Performance for your post			
3,319 People Reached			
61 Reactions, comments & shares			
48 1 Like	<b>44</b> On post	<b>4</b> On shares	
1 O Love	<b>1</b> On post	<b>0</b> On shares	
1 😵 Wow	<b>0</b> On post	<b>1</b> On shares	
1 Comments	<b>1</b> On Post	0 On Shares	
10 Shares	10 On Post	0 On Shares	
143 Post Clicks			
0 Photo views	58 Link clicks	85 Other Clicks <i>i</i>	
NEGATIVE FEEDBA			
4 Hide Post	0 Hide A	ll Posts	
0 Report as Spam 0 Unlike Page			
Reported stats may be delayed from what appears on posts			

#### Post Details

**ATLAS Experiment at CERN** 🖌 Like Page

Published by Katarina Anthony [?] · 1 February at 14:10 · ତ



#### ATLAS studies the dynamics of very highmomentum top quarks

The top quark - the heaviest known fundamental particle - plays a unique role in high-energy physics. Studies of its properties have opened new opportunities for furthering our knowledge of the Standard Model. In a new paper submitted to Physical Review D, the ATLAS collaboration presents a comprehensive measurement of high-momentum top-quark pair production at 13 TeV.

Studies of high-momentum top-...

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See more
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<b>1</b> 3,601 people reached		🛛 Boost Una	vailable
🕛 💙 Wasikul Islam, ç	and 53 others محمود عبدالحي		18 Share
🖒 Like	Comment	🖒 Share	<b>.</b> -

#### Performance for your post

#### 3,601 People Reached

80 Reactions, comments & shares $i$			
57	<b>52</b>	<b>5</b>	
Like	On post	On shares	
5	5	<b>0</b>	
O Love	On post	On shares	
<b>0</b>	<b>0</b>	<b>0</b>	
Comments	On Post	On Shares	
<b>18</b>	<b>18</b>	<b>0</b>	
Shares	On Post	On Shares	





### SUMMARY

- New strategy has proved very effective so far.
- Every platform has different suggested uses and creative limitations:
  - Continue to create Social Media videos and publish Facebook notes, in addition to our in-depth videos and website link sharing.
  - For archival (CDS) purposes: a compilation of social media video content in single video.
- > Still exploring best strategies and content types. Future content plans include:
  - Reworking older videos into Social-style videos
  - Exploring possibilities of image-text video compilations, exploiting the algorithm boost for better reach for content with no video material.



# ANY QUESTIONS?

# Contact: katarina.anthony@cern.ch



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