

Cody Franklin — THE BATTALION

Junior guard Jalen Jones shoots over a Vanderbilt defender in the A&M win Saturday.

**M. BASKETBALL**  
CONTINUED

Ole Miss (14-7, 5-3 SEC) is also feeling the pressure to keep winning. The Rebels will be defending a streak of their own, having won their past three conference games, including most recently a 20-point blowout of Missouri last Saturday. Ole Miss is averaging 75 points a game in SEC play, the highest mark in the conference. Their prolific offense is spearheaded by guards Stefan Moody (15.4 points per game), Jarvis Summers (14.1) and LaDarius White (11.4).

"They have three true guards who can all pass, shoot and dribble," said Aggie head coach Billy Kennedy. "Summers and Moody are averaging 14 free throws attempts a game and they're both shooting close to 90 percent from the free throw line. We've got to keep them out of the paint. It'll be a good matchup for us."

That proficiency at the free

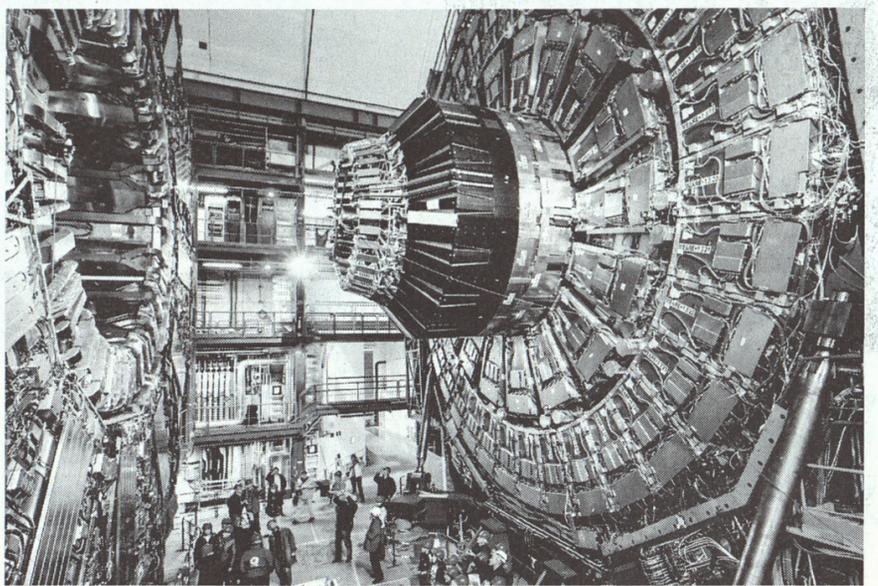
throw line extends beyond the backcourt throughout the entire Ole Miss team, and it's perhaps the single most impressive element of their offense. The Rebels are shooting around 80 percent from the stripe, a number that tops all other schools and would lead the NBA as it stands. A&M, on the other hand, ranks last in the SEC in the same category with a mark of 64.4 percent in conference play.

To extend their win streak to seven games, the Aggies will have to draw from their experience and recent success on the road. They'll also look to play zone on the defensive end to eliminate one-on-one matchups with Ole Miss' stable of talented guards and prevent Caruso and Co. from falling into foul trouble.

"This will be a game against one of the better opponents in the league," Kennedy said. "We're going to have our hands full against a really good perimeter team that's playing very well."

The CMS detector is used to collect data on the particle collisions that happen inside the accelerator.

PROVIDED



**HADRON COLLIDER**  
CONTINUED

electronics, most of what we are working on now is trigger electronics," Gilmore said. "You need a trigger in order to tell you when to save data."

This Aggie team just returned from Geneva after replacing 72 of the 540 electrical trigger boards with trigger boards of their own design, said Aysen Tatarinov, a physics doctorate student. These boards are designed to detect the Muon particle. The Muon particle was one of the ones that allowed physicists to find the Higgs-Boson particle.

The trigger boards allow the researchers to focus in their research, Gilmore said.

"We have 40 million collisions a second, and out of those, maybe 100 are sort of interesting," Gilmore said. "In fact, in the end, it ends up being one out of 40 million are actually interesting. It takes a long time to process it to find anything worthwhile."

The LHC is a 14-mile ring buried 300 feet below ground. The collider's diameter is so huge that it dips into two countries, Switzerland and France. Through electromagnets it accelerates particles before smashing them together at close to the speed of light, generating exotic subatomic particles that physicists study to try and understand how the universe is structured.

The collider is processing a lot of data in a short amount of time, Tatarinov said.

nov said. The focus of the trigger board is to pay attention to the high-energy collisions.

"You will see low energy stuff much more often, and all of the past physicists have already studied that quite well, and in order to study more interesting or exciting things we need to study the high energy collisions," Tatarinov said.

other phenomena that physicists have yet to explain.

"It is difficult to say what we will find," Safanov said. "If you look at the history of discovery, people were looking for something but they were finding something different. Something that would be even more interesting because this would allow you to learn even more and help you understand better what is happening in this micro micro world."

To understand the universe's smallest building blocks, massive machines such as the LHC have to be made for a simple purpose — to break things.

"So let's say you had a car and you wanted to figure out how a car engine worked, and you couldn't, for some reason, open up the hood and look at it," said David Tobuc, professor of physics and astronomy. "What would you do? Since we don't know what to do, our best shot is bashing two cars together and see what pops out. That's what we do. One of the crazy things that we have learned is that you can bash two particles together and create new particles."

After the Higgs-Boson was discovered, the LHC got shut down in order to implement new upgrades for more discoveries, Tobuc said. These upgrades include the capability for better detectors and faster moving particles. The LHC will be moving particles at higher energies which will allow bigger particles to be formed upon collision. The new sensors will be better prepared to capture these high speed collisions.

*"It is difficult to say what we will find. If you look at the history of discovery, people were looking for something but they were finding something different."*

Alexei Safanov, team leader of A&M faculty with the LHC

"We are interested in more high energy collisions."

The team is hoping that through these upgrades they will be able to discover more particles, Safanov said. The list of hopeful finds include Super Symmetry, Dark Matter and many

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**Newsday Crossword**

- ACROSS**
- 1 Of the backbone
  - 7 Women's magazine
  - 14 Equivalence in value
  - 15 Book's beginning
  - 16 Rather clever
  - 18 \_\_\_ cheese dressing
  - 19 Family member, for short
  - 20 Corporate VIP
  - 22 Samsung's phone competitor
  - 25 Ponce de ...
  - 27 Reason for trembling
  - 28 Adorable
  - 29 Church service
  - 30 Hunter's gun
  - 31 Clean-air agcy.
  - 32 Clamors
  - 33 No longer edible
  - 34 Rather clever
  - 39 All the rage
  - 40 Part of NYC
  - 41 Oil-well equipment
  - 43 Agree to participate
  - 46 Word on a penny
  - 47 Make public
  - 48 Percussion instrument
  - 49 Bar mixer
  - 50 Pontifical
  - 51 \_\_\_ Moines, IA
  - 52 Tax advisor's designation
  - 53 Change course

- DOWN**
- 1 Hot tub
  - 2 Mas' mates
  - 3 4/15 addressee
  - 4 Light on one's feet
  - 5 Dickens title
  - 6 Ancient harp
  - 7 Transcript stat.
  - 8 Rodeo snares
  - 9 "To repeat ..."
  - 10 Kitten sounds
  - 11 "That's great!"
  - 12 Halloween charity
  - 13 Invalidate, as an ordinance
  - 17 New Orleans school
  - 21 Smeller delivery
  - 22 Outstanding
  - 23 Cocoon dweller
  - 24 School support orgs.
  - 26 Attempted
  - 27 Generic dog
  - 29 Fine spray
  - 30 Numerical position
  - 32 Canadian superstar singer
  - 33 One of the Simpson kids
  - 35 Sudden desire
  - 36 Beethoven work
  - 37 Cylindrical sandwich
  - 38 Italian money before the euro
  - 42 Solidify
  - 43 Out of the ordinary
  - 44 Advocate
  - 45 Small skimish
  - 46 Ill-mannered
  - 47 Small chicken
  - 49 Give a padding to
  - 50 Chatter
  - 52 Burn slightly
  - 54 WWII ally
  - 56 Salty expanse
  - 57 Cartoonist's tool
  - 58 Ingested
  - 59 Cow's chew
  - 60 Most important

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**HOW CLEVER** by Charles Slack Edited by Stanley Newman www.stanxwords.com

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- 37 Cylindrical sandwich
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