Experimental films shown by Film Soc.
The M.I.T. Film Society will present the second in a series of programs of experimental films Monday, November 5. Included in the program are "N.U.," an early documentary by Nikita Mikhalkov, "Anemocle," an abstract film which uses a wide variety of techniques, such as superposition, painting on film, and rapid cutting. The varied program will also include "R," a hand-painted film by Tony Suki, four films by Robert Breer, and "Search for Forces," by Mike Mikels.

Compass Seminar
"An Experimental Approach to Gravity"
Seeks insight into gravity
By MIKE RODRIGUE
A series of three seminars on An Experimental Approach to Gravity was introduced Tuesday, October 20, when Professor Philip Morrison of the Physics Department presented the first of the Compass Seminars, "The Geometry of Space and Time." The main purpose of the lectures, according to Prof. Morrison, is "to direct attention to the possibility of gaining additional information of the gravitational field." He cited the fact that though gravity has been the longest known physical phenomenon, it has not been subjected to any great amount of experimental techniques. "The time is ripe," he noted, "for experimental study of the gravitational field itself."

After a brief historical account of the study of gravity from Galileo's day to Einstein's Unified Field Theory, Prof. Morrison proceeded to explain certain aspects of observations in space. These observations are considered from three important viewpoints, K, K', and O. While K and K' are the traditional inertial frames of reference associated with the event, O is the necessary "third partner, the universe as a whole." It is relativistically, marked Prof. Morrison, "which asserts the right to define the structure of space and time."

As concerns the experiments into the geometry of time and space, Gauss was the first to test the structure of space and time. "He noted," he said, "for experimental study of the gravitational field itself."

The best results to date are values ranging from 3.2 to 2.9 degrees of arc. Einstein predicted a value of 5.38 seconds, showing Newton's theory predicts 3.63 seconds. (To apply Newton's theory it would be necessary to assign a relativistic red shift, thereby allowing a more accurate measurement of the gravitational field.) Again, it is to be noted that the experiments show that the theory is not easy to use, and that the results are also extremely difficult to measure. The only gravitational fields strong enough to cause a noticeable red shift are stars which are moving very fast. The only field that could be measured was the gravitational field caused by the rotation of the Earth around the Sun.

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Letters...
(Continued from Page 5)
that no system of competing police forces can be worthwhile in practice. For example: Let A be the competing police force protecting individual a, and let B be the competing police force protecting individual b. Assume a believes b has been victimized by b. He notifies his police force, A, who go to b's house to arrest him, but find a squad of policemen from A seeming in their way. The resulting battle, at least on one side will be institutionalizing the use of force, and the intimidation of force by policemen is not consistent with a halftimes society.

Adria, Rod, Jr.

Catholic Club to present film on morality, ethics
The UCF XXI Forum of the First Lutheran Church of Bethesda will present the movie "Queen's Seven" on Wednesday, November 10 in 2800. From being a " Decay" movie, this is a full-length feature film which relates Christian ethics and morality to a totalitarian situation. The movie was shown in location in the German town of Linz, and Hamburg.

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