

ENTIRE UNIVERSE SLOWLY SHRINKING SCIENTIST AVERS

Startling Idea Voiced by Jerusalem Savant—Evidence Comes From Recent Nebulae Discoveries

By HOWARD W. BLAKESLEE
Associated Press Science Editor

NEW YORK, Aug. 20 (AP)—Dr. S. Sambursky, age 36, of the Hebrew university, Jerusalem, today gives in the Physical Review, here, evidence that the whole universe is shrinking, with everything in it, including even the measurable units of energy.

His idea is as startling as Einstein's discovery of the curvature of space-time and somewhat analogous in setting. Einstein was also a young man when he offered the world his then unbelievable theory. Sambursky, German born, has been a quiet, unknown scientific worker in Jerusalem since 1934, except for two years of science work in Rotterdam.

Standing Considered
Sambursky is scarcely known in this country. But the American Scientific Journal in accepting his article considered both its worthiness and Sambursky's standing among scientists who know him.

His evidence of shrinkage comes from recent discoveries made with the world's largest telescope at Mt. Wilson, California. This telescope shows that apparently the nebulae which are island universes of stars, way out at the edge of visibility, are all rushing away from the earth.

Their apparent speeds run up to 25,000 miles a second. For several years this was discussed as possible meaning that the whole universe is expanding at explosive speed.

But about a year ago Dr. Edwin Hubble, one of the observers with the big telescope, reported at Oxford, England, discovery of a puzzle in the expansion. The slightly reddish colored light of these nebulae failed to substantiate fully the expansion theory.

Dr. Hubble said it might be necessary to discover a new principle of nature to explain what the big telescope saw.

New Principle
Dr. Sambursky offers the new principle today.

Under the expanding theory the light of these distant nebulae would be red if they were going away.

But Dr. Sambursky points out that the same thing would be seen in the telescope provided everything between here and these distant nebulae is slowly, uniformly shrinking.

He shows this by using mathematics, substituting the shrinkage as a factor in calculations already previously used to prove the expansion idea.

Several things are shrinking, he says. These include the "universal lengths of atomic physics." One of these lengths is the radius of the

electron, smallest known particle of matter.

Another is the unit of energy. The measuring rod for this unit is known as "H," a tiny fraction, which can be written as 6.24 over 10 followed by 26 ciphers.

"H" is Proved
This "H" was discovered by Dr. Max Planck. Nobody knows just why it is true, but even industrial science has proved the existence of "H."

Dr. Sambursky shows mathematically that "H" is shrinking, as he thinks, along with the dimensions of the fundamental particles of matter, the puzzle of the distant nebulae can be explained.

If this universal shrinkage is true he says it can be proven. One way is to measure the wave length of a ray of light now, and again at the same point 350 years from now. He suggests as a test the red light given off by cadmium. The length is about one-twenty-five-thousandths of an inch.

In 350 years, Dr. Sambursky says, that length would decrease by one unit of its third decimal. For the time being, he adds, this test can't be counted upon.

No Effect On Man
The shrinkage of everything as pictured has no effect on man. But it has one interesting point. It is, says Dr. Sambursky, a new way of distinguishing the future from the past. Because the shrunken parts of the universe are the latest.

Human senses do not need this new method for anything yet discovered. But scientists have speculated that somewhere in the unknown parts of the universe the "arrow of time" may point in a different direction than here on earth.

Somewhere, that is, things may be growing younger. If instruments find such a place, Dr. Sambursky's test, provided it is verified, would reveal time which had reversed.

Finally, Dr. Sambursky shows that his new shrinking "H" explains the puzzle of gravitation in a new way. This explanation of gravitation, he promises to publish more fully in a separate paper.

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Menus of the Day

By Mrs. Alexander George
(Serving Three)
Breakfast Menu

Chilled Tomato Juice
Ready-Cooked Wheat Cereal
Cream

Foached Eggs on Buttered Toast
Coffee

Luncheon Menu
Egg and Ham Salad

Bread
Sugar Cookies
Tea

Dinner Menu
Rice in Ring With Creamed Mushrooms

Buttered Spinach
Biscuits
Honey

Head Lettuce
Relish Dressing
Chilled Watermelon
Coffee

Home-Made Tomato Juice
12 cups tomatoes
2 cups water
4 celery leaves
1/4 cup chopped onions
2 bay leaves
1 teaspoon granulated sugar
6 whole cloves
2 teaspoons salt
1/2 teaspoon paprika
Wash, but do not peel, the tomatoes. Cut into quarters. Add rest of the ingredients. Cover and let simmer for 30 minutes. Strain. Reheat the juice and let boil for 3 minutes. Pour into sterilized jars and seal immediately.

Egg and Ham Salad
(Other cooked meat may be used)
2-3 cup diced cooked ham
2 hard-cooked eggs, diced
1/2 cup diced celery
1-3 cup diced cucumbers
1 tablespoon minced onions
2 tablespoons chopped sweet pickles
1/4 teaspoon salt
1/2 teaspoon paprika
1-3 cup salad dressing
Mix and chill ingredients and serve in a bowl lined with shredded lettuce.

Spiced Apple Sauce
4 cups sliced green apples
1 1/2 cups water
1 lemon slice
2 orange slices
1 1/2 cups granulated sugar
1/4 teaspoon nutmeg
1/4 teaspoon cinnamon
Mix apples with water and fruit slices. Allow to boil quickly for five minutes. Add rest of the ingredients and let boil until apples are soft when tested with a fork.

BILL TO RESTORE WILD LIFE GIVEN BOOST IN SENATE

Upper Chamber Unanimous for Bill Which Sportsmen Hail As Marking Upward Curve of Game Life

In a report to Chairman Everett Trowbridge of the Jackson County Chamber of Commerce committee on fish and game and recreational resources, made yesterday by T. E. Daniels, region director of the American Wild Life Institute, wild life restoration movements are said to have received a great impetus when the senate passed unanimously the federal aid to wild life bill (S-2670) on August 10.

Passage of this measure means that approximately three million dollars of sportsmen's tax, now going to the United States, will be spent "for the sportsmen's benefit," said Daniels in his report.

Senate Unanimous
"Sponsored by the American Wild Life Institute, the General Welfare Federation and other conservation agencies, this bill was passed by the senate without a dissenting vote.

The aim of wildlife enthusiasts endorsing this important legislation is now to have the house take similar action before the imminent adjournment of congress. If this can be accomplished, it will mark the beginning of the upward curve of wild life populations of the country. It will make possible the realization of the dreams of wildlife conservationists and sportsmen over the entire continent.

"Senate bill 2670 and its companion measure (H.R. 761), now in committee in the house, provide approximately four million dollars annually to be spent on wildlife restoration in the states. And this will be accomplished without additional taxation on anyone. It simply means the transfer of the present excise tax on sporting arms and ammunition from the general fund of the treasury to a special federal-aid-for-wildlife fund. This amounts to approximately three million dollars annually which will be distributed to the states in accordance with the ratio the state area bears to the total area of the country, and with the ratio the number of licensed hunters in each state bears to the total number of licensed hunters of the country.

Big Fund Available
"Of the total fund to be used under the plan 75 per cent will be available from the federal fund, provided the individual states furnish the additional 25 per cent. There will, thus, be made available for wildlife restoration a total annual fund of approximately four million dollars. This will be spent on approved wildlife restoration projects in every state in the union.

"The American Wildlife Institute suggests that everyone urge his congressman to take prompt and favorable action on H. R. 761."

One examiner reported going out with a man who ran through a stop sign across the Pacific highway, risking the lives of both the examiner and the driver.

The examiner didn't say anything until the driver did it a second time. Thereafter the driver stopped at slow signs, highway markers and school signs.

On investigation the examiner found the driver could not read English, that he assumed all signs said "stop."

D. A. V. CAMPAIGN GETTING RESULTS

The Disabled American Veterans membership campaign is proving successful, one officer having enrolled ten new members, it was stated today by Cliff Reynolds, chairman.

The campaign, like the local D. A. V. chapter, is county-wide in scope. It will continue through September. Eligible for membership are American or allied veterans discharged for disability incurred overseas in the world war.

Report on the progress of the campaign will be given at the next regular meeting in the armory at 8 o'clock Tuesday night, August 20. Mr. Reynolds said all members should make a special effort to enroll eligibles before Tuesday's meeting.

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CHOICE ROASTS - STEAKS - CHOPS

Nice Young Fryers, lb. 25c
Beef Short Ribs, lb. 12 1/2c
Rib or Chuck Steaks, lb. 20c
Leg o' Lamb, No. 1 quality, lb. 25c
Pork Chops or Steaks, lb. 25c
Bacon Backs, lb. 28c
Veal Loin or Rib Steaks, lb. 20c
Picnic Shoulder, nice, lean, lb. 23c
Bacon, sugar cured, med. thick, lb. 30c
Prime Rib Roasts ^{Boned and Tied} lb. 20c
Fresh Side Pork lb. 20c
Veal Shoulder Roasts lb. 15c
Hamburger, fresh ground lb. 15c
Country Style Sausage lb. 15c
Shortening 3 lbs. 39c
Lard, home rendered lb. 15c
Choice Beef Pot Roast lb. 15c
Hens, choice young R. I. Red lb. 20c

SNOWDRIFT Shortening 3 Lb. Pails 59c - 6 Lb. Pails \$1.19
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Fresh, ripe oranges, lemons and limes are used in these cakes. The light, fluffy layers of both cakes are covered with fondant icing. Cool, refreshing—they are hot weather cakes, sure enough.

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Fine quality Coffee at Lower Prices

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Ground fresh any way you like it.

SARDINES Large Oval Tins 3 for 25c

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TOMATOES—Josephine No. 2 1/2 size tins. Special, can 10c
STRING BEANS—Tasty Brand, No. 2 tins. Special, can 10c
PEAS—Meeco brand, New Crop, Fine Flavor, per can 10c
PORK AND BEANS—IGA Brand, very fine quality. 2-28 oz. cans 25c

HONEY We have a complete stock of New Crop at Lowest Prices.

NEW POTATOES
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10 lbs. Potatoes 19c
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BEST FOODS REAL MAYONNAISE

ILLITERATE DRIVER THRILLS EXAMINER

SALEM, Aug. 20.—(AP)—The job of operator's license examiner is one which has no appeal to most people. Many times they take their lives into their hands when they go out with an applicant.

Schilling Coffee
One for Percolator—another one for Drip or Glass Maker.

Oh, the devilish delight in being late to work, when a second cup of Schilling is the delicious reason.

BECK'S Orange Cinnamon Rolls
22c per Dozen

These light, flaky rolls make a delicious dessert for your picnic basket or for your Sunday breakfast.

Real oranges are used to give you the real tang of the citrus fruit; the cinnamon adds enough spice to please your palette.

One dozen wrapped in cellophane.
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Breast, lb. 10c Leg, lb. 25c
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Full Line Fresh Fish and Crabs
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Field Grown Tomatoes lb. 5c
Bunch Vegetables 3 for 10c
Local Fresh, Tender

NEW CABBAGE lb. 2 1/2c
LETTUCE Large crisp heads 2 for 13c
COOKING APPLES 6 lbs. 25c
CORN, fresh, tender dozen 20c
Grapefruit 3 for 19c
Full of juice. Medium size