Three glass test tubes were used, each holding about an ounce of fluid. When equally filled, they were first placed in a vessel of water until they all showed the same degree, about 64° F. The air ranged at 65°. The three tubes were then exposed to the direct rays of the sun. One tube was filled with a black solution of India ink. Another with a solution of iodine, the color of brandy; the third with a light yellow fluid.

## FIRST EXPERIMENT.

		INDIA INK.	IODINE.	YELLOW.
After the	ıst 5m	72	69	68
"	2nd "	73	70	69
"	3rd "	74	72	72
"	4th "	76	74	7.3

## SECOND EXPERIMENT.

First tube black, the second blue, from sulp. copper, the third a yellow tinge.

			BLACK.	PLUE.	YELLOW.
5m	1st observation	1	72	69	68
	2nd "		74	72	70

## THIRD EXPERIMENT.

				BLACK.	YELLOW TINGE.	WATER.
	1st observation		72	70	69	
	2nd	"		75	72	70
25m	3rd	"		80	74	72
45	4th	"		80	.75	74
1.30	5th	"		84	76	76

The black tube caused a shadow like any solid substance not transparent, the iodine solution a modified one, and the third still less. In the third experiment, when water was used, the shadow was slight, showing the passage of the light through the tube and water. In the three experiments, the heating of the black liquid was more rapid and decided, and in the third experiment, when one tube contained the ink, the second water, and the third water slightly tinged with the yellow, the black tube showed a decided susceptibility.

The appear of tions was the vibra were sto

Anot different

The a vessel of point we three had stood at

From

the black took place tents with by a medion fluids that the homostitute contact.