

Ибн Ҳайсам оптиканинг отаси



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? ??? ????? XI ??? ?????????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? (???. 965 - 1040) “??????” (“??????”)?? ???, ????, ????, ?????????????????? ????, ?????????????? ?????? ?????????? ??????. ??????? ?????? ?????? ?????????? ?????? ?????? ??? ?????????? ?????? ?????? ??? ?????? ?????? ?????? ??? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ??? ?????? ??????.

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????? ???, “camera obscura”?? ?????? ?????? ??? ?????? ?????? ?????? ?????? ??????
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????? ?? ??????, ? “camera obscura” (????. camera obscura - “қорон?? ???”)
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? ?????? ???????, ??????? ?? ??????, ??????? ?????? ?????? ?? ?????? ?????? ?????? ??????
?? ?????? ?????????????? ??? ?????? ?????? ?????? ?????? [7] Ибн Ҳайсам, аввало,
Эвклид ва Птолемейларнинг кўриш ҳақидаги назарияларини
муҳокама қилди. Унинг бир неча фикрларини танқид қилди.

?????? ????????, ?? ?????????? ?????? ??? ?????? ??????? ??????? ?????-?????????
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????????? ??????????? ?????? ??????? ??????: “??? ?????? ?????????? ??????? ?????????? ?????????? ??? ??????????”. [14]

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[1] Islom va olam, 88 b

[2] Islom va olam, 89 b

[3] <https://islamdag.ru/lichnosti/45431>

Махач Гитиновасов, Ибн Аль-Хайсам – «отец современной оптики»

[4] E. Macud (Masood, E.), Ислам и Наука (Science and Islam), 2006, Icon Books;

[5] Islom va olam, 86 b

[6] M. Морган (Morgan, M.), Потерянная история (Lost History), 2007.
Вашингтон: National Geographic Society;

[7] <https://historyofislam.com/ibn-al-haytham-alhazen-father-of-optics/>

Professor Ibrahim B. Syed , Ibn al-Haytham (Alhazen) – Father of Optics

[8] Islom va olam, 87 b

[9] Islom va olam, 91 b

[10] K.Ayram “Islom olamidagi ilm-fan mo’jizalari”, 200 b.

[11] Firas AlKhateeb, Lost Islamic History.

[12]

https://www.photonics.com/Articles/Before_Newton_there_was_Alhazen/a36717

DAVID L. SHENKENBERG, Before Newton, there was Alhazen

[13] Firas AlKhateeb, Lost Islamic History.

[14] Islom va olam, 95 b

[15] <https://islam.plus/ru/civilizaciya/personalii/velikii-optik-alhazen>

Великий оптик Альхазен