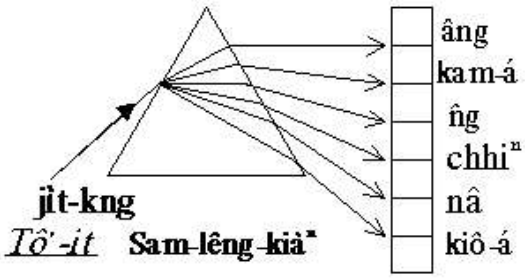
Khēng

Tân Lē-soat,Teng Liân-chong

Lí bat khòaⁿ-tiòh khēng--bô, tī chá-khí á-sī hông-hun ê sî, nā-sī lòh-hō liáu, á-sī tī chúi-chhiâng piⁿ..a, koh ū khòaⁿ-tiòh jit-kng ê sî, lán chiū ōe-tit-thang tī lēng-gōa hit pêng ê thiⁿ-téng khòaⁿ tiòh chit-chōa oan-oan pòaⁿ-î ⁿ-hêng, chin-súi ê khēng. I ū âng-sek, kam-á-sek, ňg-sek, chhiⁿ-sek, nâ-sek, ti ān-sek kap kiô-á-sek. Lâng lóng kóng chhái-hông ū chhit sek, m̄-kú góa khòaⁿ--tiòh..ê, chha-put-to sī âng-sek, ňg-sek, chhiⁿ-sek kap nâ-sek..ê, m̄ chai lí bat khòaⁿ-tiòh pat chióng sek--bô.

Nā-sī khòaⁿ-tiòh khēng ê sî, koh chhiáⁿ lí chim-chiok khòaⁿ i ê téng-kôan, ōe-tit-thang chhōe-tiòh lēng-gōa chit-chōa chhin-chhiūⁿ khēng ê chhái-hông, sek-chhái pí khēng



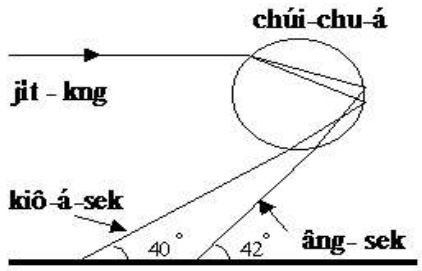
ū khah chhián--chit--sut--á, m̄-nā án-ni, i ê sek-chhái hun-pò tú hó kap khēng tò-péng. Lí kíam chai-iáⁿ chit-ê kiò-chò sím-mih miâ? I chiū-sī hō-chò “Gê” lah! Lí kiám beh chai-iáⁿ sī sím-mih gôan-in lâi chiâⁿ-chò khēng kap gê leh?

Tī kong-gôan 1666 nî, Eng-kok ê Bût-lí hák-ka Issac Newton iōng jit-kng lâi chiò kòe Sam-lêng-kiàⁿ, chiū ē chhut-hiān chhin-chhiūⁿ chhái-hông ê kok chióng sek-chhái, Newton kā in hō-chò “Kng-phó”(spectrum), chit-khóan jit-kng thong-kòe Sam-lêng-kiàⁿ lâi chiâⁿ-chò Kng-phó ê hiān-siōng hō-chò “Sek-sàn”(dispersion), chhin-chhiūⁿ Tô-it.

Newton kóng jit-kng sī kok chióng sek-kng ê hok-hap-kng. Kàu taⁿ, lán chai-iáⁿ kok chióng sek-kng lóng ū i ka-kī ê pîn-lut(frequency), bô sio-siāng pîn-lut ê kng ē hō lán bô kāng-khóan ê sek-chhái-kám. Bô kāng pîn-lut ê kng thong-kòe Sam-lêng-kiàⁿ, chiū ē chhut-hiān bô kāng hong-hiòng ê chiat-siā(refraction). In-ūi kng tī kài-chit(medium) lāi-t é, i ê sok-tō ē piàn bān. Kiô-á-sek..ê sok-tō siōng bān, só-í chiat-siā hō i ê phian-hiòng siōng tōa, âng-sek..ê sok-tō siōng kín, só-í chiat-siā hō i ê phian-hiòng siōng sè, pat chióng sek-kng ê chiat-siā, tú hó hun-pò tī chit nīng sek ê tiong-ng, chhin-chhiūⁿ Tô - it.

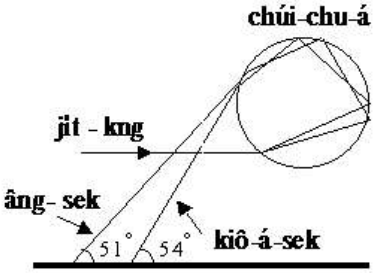
Tī Tŏ-it, lán khòaⁿ tiòh jit-kng thong-kòe Sam-lêng-kiàⁿ ū nn̄g-pái ê chiat-siā. Nā sī lòh-hŏ liáu, á-sī tī chúi-chhiâng piⁿ..a, thiⁿ--nih chhiong-bóan sè-sè-liap-á ê chúi-chu, hit sî tú-hó ū jit-kng chiò--kòe--lâi, lán chiū ōe-tit-thang tī jit-thâu ê lēng-gōa hit pêng khòaⁿ tiòh khēng--lơh! Khēng chūi-sī jit-kng thong-kòe chúi-chu, ū nn̄g-pái ê chiat-siā kap chit-pái ê hóan-siā sŏ chiâⁿ-chò ê Sek-sàn hiān-siōng, chhin-chhiūⁿ Tŏ-jī.

Lán sŏ khòaⁿ--tiòh chit-tiâu gióng-kak 42°..ê, chiū-sī âng-sek..ê, hit-tiâu gióng-kak 40°..ê, chiū-sī kiô-á-sek..ê. Sŏ-í lán khòaⁿ--tiòh ê khēng, âng-sek..ê sī tī téng-kôan hit-khơ, kiô-á-sek..ê sī tī lāi-khơ.



Tŏ -jī Chúi-chu sek-sàn chiâⁿ-chò khēng

Gê chūi-sī jit-kng thong-kòe chúi-chu, ū nn̄g-pái ê chiat-siā kap nn̄g-pái ê hóan-si ā sŏ chiâⁿ-chò..ê, âng-sek-kng ê gióng-kak sī 51°, kiô-á-sek..ê sī 54°, chhin-chhiūⁿ Tŏ-saⁿ. Sŏ-í lán khòaⁿ--tiòh ê gê ē chhut-hiān tī khēng ê téng-kôan, sek-chhái hun-pò kap khēng tò-péng, sek-chúi iah khah chhián--chit--sut--á! Che sī in-ūi ke chit-pái ê hóan-siā, lêng-liōng ū kiám koh khah chió ê gôan-in.



Tŏ -saⁿ Chúi-chu sek-sàn chiâⁿ-chò gê

Chham-khó chu-liāu:

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